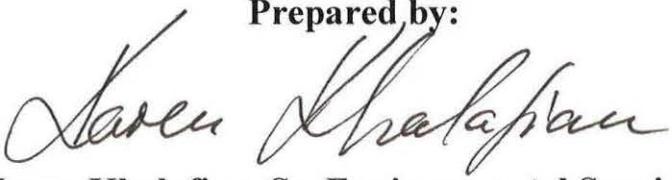


**SITE INSPECTION REPORT
OHIO OIL COMPANY
CREEK COUNTY, OKLAHOMA
EPA CERCLIS ID # OK0001981349**

July 14, 1998

**STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTE MANAGEMENT DIVISION
SITE ASSESSMENT UNIT**

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Date: July 14, 1998

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Site: Ohio Oil Company
Creek County

EPA ID #: OK0001981349

1. INTRODUCTION

The State of Oklahoma Department of Environmental Quality (DEQ) under the Multi-Site Cooperative Agreement (CA# V-00645-01) with the U.S. Environmental Protection Agency (EPA), as authorized by CERCLA and as amended by SARA, conducted a site inspection (SI) of the Ohio Oil Company site (CERCLIS# OK0001981349), located in Creek County, Oklahoma. The purpose of this investigation was to collect information concerning conditions at the site sufficient to assess the threat posed to human health and the environment, to determine the need for additional investigation under CERCLA/SARA, and, if appropriate, support site evaluation using the Hazard Ranking System (HRS) for proposal to the National Priorities List (NPL). This investigation included reviewing information collected during the Preliminary Assessment (PA), sampling waste and environmental media to test PA hypotheses and to evaluate and document HRS factors, and collecting additional non-sampling information.

2. SITE DESCRIPTION

2.1 Location

The Ohio Oil Company site is located in the NE4 SW4; NW4 SE4; and E2 NW4 SW4, all in Section 20, T16N R9E IM, and all of that portion of the northwest corner of the SE4 SW4 of Section 20, lying northwest of the St. Louis & San Francisco Railroad's right of way, containing in all approximately 101 acres (Reference 1, Figure 1). The site has the coordinates of 35° 50' 52.86" north latitude and 96° 22' 45.85" west longitude (Reference 2), and is located about 1.2 miles northeast of City Hall of the City of Bristow, Oklahoma (Reference 2).

The Ohio Oil Company site is located near the center of Creek County in northeastern Oklahoma where the average annual precipitation is 37.19 inches. Creek County's climate is continental and has pronounced seasonal changes in temperatures. It is generally warm to temperate to humid. The prevailing winds are from the north from December to February and from the south during the rest of the year. Spring and fall are cool and usually windy. Winters are short and comparatively mild. Summers are long and hot (Reference 2).

2.2 Site Description

The site is flanked by the Turner Turnpike's tollgate to the west, a residential area and the turnpike to the northwest and north, and a wooded area to the east and south. Site access is not controlled, although, the residential properties on the site and the south and eastern boundaries of the site are partially fenced with barbed wire (References 2, 3). The remaining structures from the former refinery plant and tank farm include former refinery buildings, concrete pads, old tank foundations, and tank berms (References 2, 3).

The topography in the vicinity of site slopes to the south. Surface water runoff would follow the topography in the vicinity of the site (Reference 2). There are two fresh water ponds on the site, both are currently used for fishing (References 2, 3). The pond which is located on [REDACTED] (b) (6) property was once the refinery's cooling pond. A small south trending intermittent stream is fed by this pond and flows about 0.5 mile until it meets Sand Creek (Reference 2, Figure 1). The site is located outside the 100 year flood hazard area (Reference 2).

There are four residences and an eight-unit apartment building on site; four residences are within 200 feet of the site; and 11 are within one-quarter mile (References 2, 3). There are three old refinery buildings on the site which appeared to be occupied by "Plain or Fancy Stiches (sic) Manufacturing" (Reference 3). There are no schools or day-care centers within 200 feet of the site (Reference 2). The majority of the site is covered by grass, shrubs, and trees, but there are two areas of asphalt-like waste in the portion of the site formerly occupied by the refinery's tank farm and a waste pit near the railroad (Reference 2). An area with tar-like material was found during the sampling event on the property belonged to [REDACTED] (b) (6) covering approximately 900 square feet (Reference 4). During the sampling event, it was confirmed that there are wetlands on site. Three areas of standing water with what appeared to be wetland vegetation growing in and around it were observed during the site visit. These observed wetlands, which were not indicated on the area wetland map, are estimated to cover 35,400 sq. feet or 0.8 acre (References 2, 3).

The former refinery area is currently owned by several parties (References 2, 3, 4, 5).

2.3 Previous Investigations and Regulatory History

Based on available in the DEQ files information, there were no environmental investigations of the Ohio Oil Company site prior to the Preliminary Assessment performed by DEQ in March of 1997.

2.4 Operational History and Waste Characteristics

A detailed title search indicates that on January 3, 1917, an Assignment of Oil and Gas Lease was signed between Continental Refining Company and Yarma Harjo (Reference 3). Based on Sanborn Fire Insurance Maps and Creek County Records it was determined that following companies owned the refinery after 1917: Transcontinental Oil Company (1917 - 1923), Marathon Oil Company (1923 - 1936), and Ohio Oil Company (1936 - 1942) (Reference 3).

On October 16, 1942, the site was acquired by the Sonken-Galamba Supply Company and then divided among several parties (Reference 3). A 1923 Sanborn Fire Insurance Map shows the various components of the refinery while it was owned by the Marathon Oil Company (Reference 3).

An aerial photograph dated 1941, shows that all the 50,000 barrel storage tanks were already removed by 1941 (Reference 2). It is unknown what type of activities were maintained on the site after Ohio Oil Company ceased its oil-related activities on the site.

Records from the Creek County Tax Assessor's office indicate that the current owners of the site are: [REDACTED] (b) (6) Falcon Oil Properties; U. S. Cellular Telephone Corp.; and [REDACTED] (b) (6) (References 2, 3). There are no existing complaints regarding the site in the Creek County DEQ files (Reference 2).

Old foundations and buildings which belonged to the refinery are on the site (Reference 2). Two of the former tank berms contain asphalt-like waste which may be tank bottom sediment from the 50,000 barrel storage tanks once present on site. During the sampling event, these areas were partially covered by pooled water from a recent heavy rain (Reference 4). The total area covered by the asphalt-like waste is estimated at about 13,200 sq. feet (0.3 acre) (Reference 2). A waste pit is located on the central portion of the site just west of the railroad. The dimensions of the waste pit approximately are 450' x 60' x 0.5' or 13,500 cubic feet (Reference 2).

As indicated in the 1959 soil survey, the land was impacted by oil exploration waste (Reference 2). This classification corresponds to miscellaneous land types which are defined as gullied and eroded and almost bare of vegetation (Reference 2). Currently, the site is well vegetated (References 2, 3). The wastes assumed to be associated with this type of facility include crude oil, tank residues, brine, acid and caustic sludges, heavy metals, petroleum products, coke, sulphur compounds, and solvents.

3. WASTE/SOURCE SAMPLING

3.1 Sample Locations

Waste samples were taken from the waste pit on the central portion of the site just west of the railroad and two former tank berms on the eastern portion of the site. Laboratory results indicate an area of contaminated soil, which, when triangulated, covers approximately 35 acres. The area of contaminated soil is considered a waste source for the purposes of this SI. Locations and sample numbers of the waste and background samples are described in Tables 1 and 3 depicted in Figure 3.

3.2 Analytical Results

The collected samples were analyzed for total metals, including mercury, volatile and semivolatile organics using Oklahoma State Environmental Laboratory (SEL) methods and procedures (Reference 3). Waste samples OH-WS-1, OH-WS-4 (duplicate of OH-WS-1), and OH-WS-2, collected on-site, showed elevated levels of several metals including lead, mercury, and arsenic, when compared to background (Reference 6). Sample OH-WS-2 showed the highest concentration of lead: 953.0 mg/Kg. The sample was collected from the former tank berm on the eastern part of the site (References 4, 6). Samples OH-WS-1, OH-WS-4 (duplicate of OH-WS-1), collected from the waste pit on the central portion of the site, exhibited the greatest number of organic contaminants found at the site. Benzo(a)anthracene, benzo(a)pyrene, anthracene, phenanthrene, chrysene, pyrene were found among other organics in elevated levels in these samples. The analytical data for these on-site waste samples is shown in Table 3 of this document.

3.3 Sources

Based on the analytical data presented in Tables 3, 4, and 5, and information collected during the sampling event, the location, type, and size of on-site sources were determined (Reference 4). The dimensions of the waste pit on the central portion of the site were measured and are approximately 450ft. x 60ft. x 0.5ft. = 13500 cubic feet. It is assumed that the depth is relatively constant throughout the source. Therefore, the volume of the waste pit is estimated at 500.04 cu. yd. (13500 cu. ft. x 0.03704 (conversion factor) = 500.04 cu. yd.).

Asphalt-like waste, believed to be tank bottom sediment from the 50,000 barrel storage tanks once present on-site, was observed in two bermed areas on the eastern portion of the site during the site reconnaissance (Reference 2). During the sampling event both areas were covered by water pooled in these two areas after a rain (Reference 4). Samples were collected from both locations (OH-WS-2 and OH-WS-3), but only sample OH-WS-2 showed elevated level of just one contaminant (Reference 6). The dimensions of the area are: 120 ft. x 70ft. = 8400 sq. feet. The sampling team was not able to measure the depth of the waste source due to the presence of water on the former tank berm (References 2, 4). This waste source is considered to be a contaminated soil for the purposes of this SI.

After triangulating between sample points (OH-WS-2, OH-SS-3, OH-SD-1, OH-SD-2, OH-SD-4, OH-SD-5), which show elevated levels of similar contaminants, it was concluded that the contaminated soil source area, which includes two other distinguishable sources (the waste pit on the central portion of the site and the contaminated soil in the former tank berm area) covers about 35 acres or 1,524,600 sq. ft. Acreage was plotted using a topographical map (Figure 4). After subtracting areas covered by the waste pit and the contaminated soil in the tank berm area (27000 sq. ft and 8400 sq. ft. respectively) and areas covered by the remaining buildings (4000 sq. ft., 650 sq. ft., and 2000 sq. ft.) (References 2, 4) from the area of contaminated soil, it was determined, that the contaminated soil covers 1,482,550 sq. ft.

(b) (6) showed an area with tar-like material with the dimensions 60 ft. x 30 ft. in his backyard. The area was not sampled due to the limited number of samples. Visually, the area is similar to the waste pit on the central portion of the site (Reference 4).

3.4 Conclusions

There is a significant amount of refinery waste located on-site which contains elevated concentrations of metals and organics. The waste is unconfined and could migrate off site via groundwater pathway, surface water runoff, or in the air.

4. GROUND WATER PATHWAY

4.1 Hydrogeology

According to the Creek County Soil Survey, the site overlies the Sandy Soils of Forested Areas Association characterized by its susceptibility to leaching. Strongly sloping Darnell and Pottsville soils and sloping Stephenville and Darnell fine sandy loams form part of the Sandy Soils of Forested Areas Association, which covers the area of interest (Reference 2).

Strongly sloping (12 to 20 percent slopes) Darnell and Pottsville soils cover the central and southcentral areas of the site. These soils developed over reddish sandstones under the cover of forest and consists of very shallow, more or less sandy and stony, acid soils that overlie slightly acid to neutral, reddish or yellowish, interbedded sandstone, silty or sandy shale, and shale. Many fragments of sandstone, ranging up to 2 or 3 feet in diameter, lie on the surface, and there are many outcrops of sandstone bedrock. Surface drainage is rapid. Internal drainage is moderate in the Darnell soils, but it is very slow in the Pottsville soils. The soil profile is less than 8 inches thick, except in scattered pockets between stone fragments or outcrops where it may be as much as 12 or 15 inches thick. This land is unsuitable for any agricultural use (Reference 2).

The soil survey indicates that the eastern portion of the site is covered by Stephenville and Darnell fine sandy loams with 4 to 7 percent slopes. These shallow to moderately deep upland soils developed over reddish-yellow to red sandstone or interbedded sandstone and sandy shale. Both soils are well drained. Runoff is slow to moderate, but internal drainage is moderate to rapid. The two soils are similar in surface appearance, but the Stephenville soils are 20 to 36 inches deep and the Darnell soils are 5 to 20 inches deep over sandstone. This land is not well suited to crops (Reference 2).

The soil survey has mapped the western portion of the site and all the bermed areas as oil-waste land, indicating contamination at the surface soil (Reference 2).

The Barnsdall Formation, which is a part of the Vamoosa-Ada aquifer in the study area, outcrops at the Ohio Oil Company refinery site and potentially receives groundwater recharge from downward infiltration of precipitation falling on the ground surface. The Barnsdall Formation is a bedrock aquifer but is not considered to be a Principal Ground Water Resource by the Oklahoma State Department of Health. Alluvial deposits of the Sand and Little Deep Fork Creeks are present to the south of the site within the area of interest and considered to be a Principal Ground Water Resource by the Oklahoma State Department of Health (Reference 2).

The alluvial deposits consist of wedge shaped layers of sand, silt, clay, and gravel. These deposits range from 0 to 100 feet in thickness. In the study area, the Vamoosa-Ada aquifer is comprised of, in ascending order, the uppermost part of the Barnsdall Formation, the Tallant Formation, the Vamoosa Group, the Ada Group, and the lower part of the Vanoss Group. The Barnsdall Formation is approximately 200 feet thick under the site and consists of massive to thin beds of coarse to fine grain sandstone, irregularly interbedded with sandy to silty shale. The Vamoosa-Ada strata outcrop is predominantly composed of red and brown, coarse to fine grain, well sorted sandstones interbedded with dark red sandy to silty shale (Reference 2).

The upper part of the Barnsdall Formation and the alluvial aquifer are unconfined, with a shallow water table, and are very susceptible to groundwater contamination by potential wastes or contaminated soils at the site. Depth to the shallowest water bearing formation is less than 25 feet (Reference 2). The regional groundwater flow direction is from west to east, as is surface drainage. However, locally the shallow groundwater flows in various directions to points of discharge into surface water bodies, such as rivers, creeks, lakes, and ponds (References 2, 3). At the site, it is flowing toward the south to southeast, discharging into Sand Creek and its tributaries nearby (Reference 2). Impacted groundwater discharging into a creek may serve as source of surface water pollution.

There are no Well Head Protection Areas within a four mile radius of the site (Reference 2). No rural water system is in the area of interest (Reference 2). There is no indication that the site is located in an area of karst terrain (Reference 2). There are no faults mapped at the site (Reference 2).

4.2 Targets

There are three domestic water wells located on-site (References 2, 3). An average depth of these wells is about 160 – 170 feet (Reference 3). One well is producing water for the 8-unit apartment building. Also, this well is a source of drinking water for 17 people working for “Plain or Fancy Stiches (sic) Manufacturing” on-site (Reference 3). The total population, including 17 workers of “Plain or Fancy Stiches (sic) Manufacturing”, 6 people at (b) (6) residence, 2 residents at (b) (6) residence, 3 people at (b) (6) residence, people at (b) (6) residence, and 21 residents of the apartment building, served by private wells is described in the table below. The numbers were arrived at by multiplying the number of wells by the estimated average number of

persons (2.68) within each household in Creek County (References 2, 3).

Private Wells

Distance from Site (mi)	# of Wells	Est. Population Served by Private Wells
On-site	3	46.44
0 - ¼	4	11.04
1/4 - ½	1	2.68
1/2 - 1	6	16.08
1 - 2	24	64.32
2 - 3	23	61.64
3 - 4	27	72.36
Total	88	274.56

The City of Bristow obtains its water supply solely from wells within the four mile study area. These wells are screened in the Vamoosa-Ada aquifer. There are eight public water wells within the study area that make up the City of Bristow Municipal Water System. Bristow obtains its water supply solely from wells that are within the study area. Two municipal wells (Wells # 14 and 16) are located about one and one-quarter mile south and southwest of the site. They are approximately 200 feet deep and produced from the Barnsdall Formation. The nearest municipal well (Well # 14) is located less than one and one-quarter mile southwest of the site. There are five water storage towers within the distribution system. There are only three municipal wells [two large capacity wells (200 gpm) and one small capacity well (50 - 90 gpm)] pumping simultaneously during any given 24 hour period. Under this scheme, one well provides more than forty percent of the daily water supply but not more than forty percent of the total annual production. The population served by each well is apportioned according to the estimated annual production capacities of the individual wells. Wells # 14, 16, 17, 19, 20, 22, 23 are located in the one to two mile radius zone and the Well # 18 is located in the two to three mile zone (Reference 2). Thus, the apportioned population served by Well #18 is located in the two to three mile radius zone, while the rest of the population is placed in the one to two mile zone. A population fraction served by Well # 18 is 6.73% or 300.7 people. The 119 residents of the Slick Rural Water Association also obtain their water supply from Bristow (Reference 2). A public well (Well # 1) in the two to three mile radius zone serves the 50 residents of the Evergreen Trailer Park (Reference 2). The total population served by the municipal wells is 4,469 people (4,300 from Bristow, 119 from Slick, 50 people from

the Evergreen Trailer Park) and is described in the table below (Reference 2).

Public Wells		
Distance from Site (mi)	# of Wells	Est. Population Served by Public Wells
On-site	0	0
0 - $\frac{1}{4}$	0	0
$\frac{1}{4} - \frac{1}{2}$	0	0
$\frac{1}{2} - 1$	0	0
1 - 2	7	4119
2 - 3	2	350
3 - 4	0	0
Total	9	4469

4.3 Sample Locations

In the vicinity of the site the groundwater is flowing toward the south, discharging into Sand Creek and its tributaries nearby (Reference 2). The groundwater could also migrate beneath the Sand Creek bed and proceed to the south to the municipal well # 16. This well was sampled to determine the possible migration of hazardous substances from the area of interest. The background sample for the municipal water well was collected from the municipal water well # 22 located about 1.3 mile west of the site, outside the influence of the former refinery. Groundwater samples were collected from one domestic wells on the site and a domestic well at the residence located about (b) (6) of the site. The background sample for these domestic wells was taken from the same aquifer, outside the influence of the former refinery, from the domestic well at the residence located about (b) (6) of the site. The depths of these wells are within the same range (Reference 3). A duplicate sample was collected from domestic well at (b) (6) residence on-site. A field blank was collected to check sampling technique and ensure quality control. Table 1 presents sample numbers, descriptions, and locations. Figure 2 shows sample locations. Field measurements (Reference 4) are described in the table below:

Sample Number	PH	Temperature °C	Conductivity Mmhos/cm
OH-GW-1	6.85	18	150
OH-GW-2	6.99	17	265
OH-GW-3	7.06	18	310
OH-GW-4	6.65	15	282
OH-GW-5	7.00	18	400
OH-GW-6	6.85	18	150

4.4 Analytical Results

There are only three contaminants found above background in municipal and domestic water wells. Zinc was detected in the sample taken from municipal well # 16 at a concentration of 157 ppb (0.157 ppm). Copper was detected in the sample taken from a domestic well at the residence located approximately 50 feet southwest of the site at a concentration of 126 ppb (0.126 ppm). Zinc and copper are not among the substances found at the site (Reference 6, Tables 3, 4, and 5). Acetone was detected in the sample collected at the (b) (6) residence on-site at a concentration of 1ppb (0.001 ppm). The duplicate sample collected at the same location does not contain acetone (Reference 6). The analytical data for the aqueous samples are presented in Table 2.

4.5 Conclusions

Zinc and copper were not detected in samples taken from the site at concentrations above the background (Reference 6, Tables 3, 4, and 5). The presence of these two contaminants indicates a possible release to groundwater. However, the conditions of the water pipes and faucets at the well heads are unknown. Therefore, the contamination in the groundwater collected at the municipal well # 16 and at the residence located about 50 feet southwest of the site could be from the site, but could also be from the wells, considering the unknown conditions of the faucets of the well heads. Also, water at the municipal well # 16 could be affected by the former activities at Wilcox Oil Company site located between Ohio Oil Company site and the well # 16.

The presence of acetone at the concentration of 0.001 ppm in the sample OH-GW-6 and in the trip blank sample (OH-TB) at the concentration of 0.003 ppm (Reference 6), and its absence in the duplicate sample (OH-GW-1) may lead to the conclusion that its presence can probably be attributed to laboratory activities.

5. SURFACE WATER PATHWAY

5.1 Hydrology

The topography in the vicinity of site slopes to the south. Surface water runoff would follow the topography in the vicinity of the site (Reference 2). There are two fresh water ponds on the site (Reference 2). Both ponds are currently used for fishing. The pond located on [REDACTED] (b) (6) property used to be the refinery's cooling pond. A small tributary of Sand Creek originates from the pond and flows south until it meets Sand Creek. The probable point of entry (PPE) into Sand Creek is one half mile south of the site and occurs in the SE4 NW4 NW4 of Section 29 T16N R9E IM in Creek County (Reference 2). Sand Creek, which flows west and then south from the site, is a small, perennial tributary of the Little Deep Fork Creek and flows southeasterly until it enters the Little Deep Fork about 3.5 miles downstream from the PPE (Reference 2). The 15 mile target distance ends in the Little Deep Fork Creek just south of Slick, within Section 20 T15N R10E IM of the same county (Reference 2). The nearest gaging station is located on the Deep Fork River over 30 miles away from the Sand Creek and can not be considered representative of the flow rate of Sand Creek and Little Deep Fork Creek (Reference 2). The annual flow rate of Sand Creek is unknown. However, upon visual confirmation during the site reconnaissance, it is estimated that the Sand Creek qualifies as a small to moderate stream. However, the creek, which is shown as a perennial stream on the topographic map, may not flow at times during the dry summer months (Reference 2).

The normal annual precipitation in the region of the site is about 37.19 inches per year (Reference 2). The 2-year 24-hour rainfall in the region of the site is about 3.8 inches (Reference 7). The site is located outside the 100 year flood hazard area (Reference 2). There are no drinking water intakes associated with the surface water pathway (Reference 2).

There are about 30 miles of wetland frontage associated with the 15 mile target distance (Reference 2). The nearby Sand Creek and Little Deep Fork Creek have a potential for contamination from the site. In fact, a south trending intermittent stream was sampled near a county road, about one-quarter mile south of the site during the Wilcox Oil Company ESI, which was conducted by Roy F. Weston, Inc., on November 18-20, 1996. The laboratory results show elevated levels (more than 3 times above background) of copper, zinc, lead, and magnesium (Reference 2).

5.2 Targets

There are no drinking water intakes associated with the surface water pathway (Reference 2). There are two ponds on the site and one pond located about 50 feet southwest of the site. Owners of these ponds confirm that their families fish the ponds. [REDACTED] (b) (6) owner of the pond that used to be the refinery cooling pond, stated that other people also use his pond for fishing. All owners failed to provide an estimated amount of the catch (References 2, 3). Therefore, it is conservatively assumed, for the purposes of this SI, that one pound of fish from each pond is consumed annually.

There are three areas which are believed to be wetlands due to the standing water and what appeared to be wetland vegetation on the site. Two of these areas, with the dimensions 40 ft. x 60 ft. and 100 ft. x 80 ft. located on the former refinery plant area; one area, with the dimensions 250 ft. x 100 ft. located in the northeasternmost tank berm. These observed wetlands, which are not indicated on the area wetland map, are estimated to cover 35,400 sq. feet or 0.8 acre (Reference 2). There have been no reported sightings of endangered/threatened species within the 15-mile target distance limit (Reference 2).

5.3 Sample Locations

Since the surface water pathway of the area, was investigated by the Roy F. Weston, Inc., during the Expanded Site Inspection of the Wilcox Oil Company (Reference 2), DEQ sampled surface water located on and near Ohio Oil Company site. Surface water was collected from the small intermittent stream to determine the possible migration of the contaminants from the site to Sand Creek. The background sample was collected last. Sediment samples were collected from several locations on and near the site including two wetlands and three ponds. Proposed sample locations and justification of the samples are described in Table 1 and depicted in Figure 3.

5.4 Analytical Results

Those collected at both wetlands and the pond on [REDACTED] (b) (6) property ([REDACTED] (b) (6) residence) sediment samples contained elevated concentrations of lead, benzene, acetone, methylethyl ketone, toluene, and xylenes. The sample collected from the pond on [REDACTED] (b) (6) property contained elevated concentrations of acetone, methylethyl ketone, and toluene. The sample collected from the pond located about 50 feet southwest of the site contained elevated level of acetone. The analytical data for the sediment samples are presented in Table 4.

5.5 Conclusions

A presence of hazardous substances on the site was evidenced by the elevated concentrations of lead, acetone, benzene, methylethyl ketone, toluene, and xylenes. All these substances have been detected in the sediment of the on-site wetlands and ponds. All three ponds are used for recreational fishing by the property owners and others. Aqueous sample collected from the small tributary of Sand Creek south of the site (OH-SW-1) indicate that it has not been impacted by the site at this time.

6. SOIL EXPOSURE PATHWAY

6.1 Physical Conditions

The majority of the site is covered by grass, shrubs, and trees, but there are two areas of asphalt-like waste in the portion of the site formerly occupied by the refinery's tank farm and a waste pit near the railroad. The remaining structures from the former refinery plant and tank farm include former refinery buildings, concrete pads, tank berms, and old tank foundations. Residential areas are fenced, but some portions of the site do not have controlled access (References 2, 3).

6.2 Targets

There are three residences and an eight unit apartment building on-site (32 people); six residences are within 200 feet of the site (16 people); and 11 residences (29 people) are within one-quarter mile (References 2, 3). There are three old refinery buildings on the site which are occupied by "Plain or Fancy Stiches (sic) Manufacturing". There are 17 people working for this business. There are no schools or day-care centers within 200 feet of the site. The estimated population within 1 mile of the site is 606 people (References 2, 3). No commercial livestock have been observed on or near the site, but Mr. Skaggs has 2 horses, 3 pigs, and about 30 chickens (References 2, 3, 4). There have been no reported sightings of terrestrial endangered/threatened species on-site (Reference 2).

6.3 Sample Locations

A total of 7 soil samples (OH-SS-1 through OH-SS-7) were collected during the SI. Soil samples were collected from three residences, the apartment building, and former location of the refinery plant. Soil sample locations are described in Table 1 and depicted in Figure 3.

6.4 Analytical Results

Soil samples collected during the SI were analyzed for total metals and the volatile and semi-volatile organics (Reference 3). A concentration greater than three times background for methylene chloride was detected in sample OH-SS-1. The sample was collected from the backyard of Dorman Skaggs's residence. The sample collected in the backyard of the apartment building contained a concentration greater than three times background for lead – 92 ppm. Concentrations of lead (120 ppm) and benzene (0.0028 ppm) greater than three times background were detected in the sample collected near old refinery structures on the former location of the refinery plant. Concentrations of lead (204 ppm), xylenes (0.005 ppm), and methylene chloride (0.028 ppm) greater than three times background were detected in the sample collected in the backyard of [REDACTED] (b) (6) residence (Reference 6). The analytical data for the soil samples are presented in Table 5.

6.5 Conclusions

After triangulating between sample points (OH-WS-2, OH-SS-3, OH-SD-1, OH-SD-2, OH-SD-4, OH-SD-5), which show elevated levels of similar contaminants, it was concluded that the contaminated soil source area, which includes two other distinguishable sources (the waste pit on the central portion of the site and the contaminated soil in the former tank berm area) covers about 35 acres or 1,524,600 sq. ft. Acreage was plotted using a topographical map (Figure 4). After subtracting areas covered by the waste pit and the contaminated soil in the tank berm area (27000 sq. ft and 8400 sq. ft. respectively) and areas covered by the remaining buildings (4000 sq. ft., 650 sq. ft., and 2000 sq. ft.) (References 2, 4) from the area of contaminated soil, it was determined, that the contaminated soil covers 1,482,550 sq. ft.

7. AIR PATHWAY

7.1 Site Conditions

It is likely that air emissions occurred during the operational period of the refinery; however, the only emissions of concern currently at the site are contaminated soil particles and volatile organics that could become airborne.

7.2 Targets

The nearest individuals are the on-site residents whose residences are located within the area of contaminated soil waste source (References 2, 4). The estimated population and wetland acreage within 4 miles of the site is described in table below (References 2, 3):

Estimated Population and Wetland Acreage

Distance from site (mi)	Estimated Population	Estimated Wetland Acreage
On-site	32	4.3
0 - ¼	46	2
¼ - ½	73	5
½ - 1	456	11
1 – 2	3,824	85
2 – 3	802	160
3 – 4	618	125
TOTALS	5851	392.3

7.3 Sample Locations/Analytical Results

Since air sampling is outside the scope of a focused SI, no formal air monitoring program was conducted and no air samples were collected.

7.4 Conclusions

A release to the air pathway has not been documented at the site; however, there is a potential for release to the air from contaminated soil particles and volatile organics. A hydrocarbon odor was detected during sample collection on the waste pit on the central portion of the site (Reference 4).

8. SUMMARY AND CONCLUSIONS

The Ohio Oil Company site is a former refinery that encompasses approximately 101 acres. The site is located approximately 1.2 miles northeast of City Hall of the City of Bristow, Creek County, Oklahoma. The refinery operated approximately 25 years (1917 - 1942). It is estimated that approximately 34 acres of the site is covered by contaminated soil.

Samples collected from on-site waste sources detected elevated concentrations of metals and organics. The visible waste on-site has no containment and could migrate off-site via the groundwater, surface water, and the air pathway.

Analytical results indicate elevated level of zinc in the municipal well # 16; elevated concentrations of lead, xylenes, and methylene chloride in the backyards of three residences on-site; elevated levels of contaminants in two wetlands and three ponds on and near the site.

TABLES AND FIGURES

Table 1: Sample Collection

Sample Number	Sample Type	Location	Date	Time
OH-GW-1	Aqueous	Sample collected from domestic well at (b) (6) residence on-site to determine presence or absence of hazardous substances on-site	3/25/98	10:45
OH-GW-2	Aqueous	Sample collected from domestic well at (b) (6) residence to determine a potential migration of hazardous substances from the site	3/25/98	09:30
OH-GW-3	Aqueous	Sample collected from domestic well at (b) (6) residence to establish background	3/24/98	04:20
OH-GW-4	Aqueous	Sample collected from municipal well # 16 to determine a potential migration of hazardous substances from the site	3/24/98	01:30
OH-GW-5	Aqueous	Sample collected from municipal well # 22 to establish background for groundwater collected from the municipal well # 16	3/24/98	02:15
OH-GW-6	Aqueous	Duplicate of OH-GW-1	3/25/98	10:45
OH-TB	Aqueous	Trip Blank		
OH-FB	Aqueous	Field Blank		
OH-SW-1	Aqueous	Sample collected from small south trending intermittent stream south of the site to determine a potential migration of hazardous substances from the site	3/24/98	02:40
OH-SW-2	Aqueous	Sample collected from the same intermittent stream near (b) (6) residence to establish background for surface water	3/24/98	04:00
OH-SD-1	Sediment	Sample collected from the wetland on the NE portion of the site to determine presence or absence of hazardous substances on-site	3/24/98	11:05
OH-SD-2	Sediment	Sample collected from the wetland on the former location of the refinery plant to determine presence or absence of hazardous substances	3/24/98	03:20
OH-SD-3	Sediment	Sample collected from the pond on (b) (6) property to determine presence or absence of hazardous substances on-site	3/25/98	11:05
OH-SD-4	Sediment	Sample collected from the pond on (b) (6) property to determine presence or absence of hazardous substances on-site	3/24/98	12:15
OH-SD-5	Sediment	Sample collected from the pond on (b) (6) property to determine a potential migration of hazardous substances from the site	3/25/98	09:55
OH-SD-6	Sediment	Sample collected from the intermittent stream near (b) (6) residence to establish background	3/25/98	12:10
OH-SD-7	Sediment	Duplicate of OH-SD-4	3/24/98	12:15
OH-SS-1	Soil	Sample collected from the backyard of (b) (6) residence to determine presence or absence of hazardous substances on-site	3/25/98	11:50
OH-SS-2	Soil	Sample collected from the backyard of (b) (6) residence to determine presence or absence of hazardous substances on-site	3/25/98	10:45
OH-SS-3	Soil	Sample collected from the backyard of the apartment building to determine presence or absence of hazardous substances on-site	3/25/98	10:05
OH-SS-4	Soil	Sample collected near old refinery structures to determine presence or absence of hazardous substances on-site	3/25/98	12:20
OH-SS-5	Soil	Sample collected from the backyard of (b) (6) residence to determine a potential migration of hazardous substances from the site	3/25/98	12:30
OH-SS-6	Soil	Sample collected E of site (b) (6) property to establish background	3/24/98	04:30
OH-SS-7	Soil	Duplicate of OH-SS-2	3/25/98	10:45
OH-WS-1	Waste Material	Sample collected from the waste pit on the central portion of the site to determine types and concentrations of hazardous substances on-site	3/24/98	03:50
OH-WS-2	Soil	Sample collected from the former tank berm on (b) (6) property to determine types and concentrations of hazardous substances on-site	3/24/98	11:30
OH-WS-3	Soil	Sample collected from the former tank berm on (b) (6) property to determine types and concentrations of hazardous substances on-site	3/24/98	11:45
OH-WS-4	Waste Material	Duplicate of OH-WS-1	3/24/98	03:50

Table 2: Analytical Results for Aqueous Samples (ppm)*

Sample ID	OH-GW-3 OH-GW-5 (background)	OH-GW-2	OH-GW-4	OH-GW-6
Substance				
Acetone	N/d			0.001
Copper	0.012	0.126		
Zinc	0.014		0.157	

Table 3: Analytical Results for Waste Samples (ppm)*

Sample ID	OH-SS-6 (background)	OH-WS-1	OH-WS-2	OH-WS-4 (duplicate of OH-WS-1)
Substance				
Arsenic	n/d	15.0	-	-
Lead	12.0	45.0	953.0	69.0
Mercury	n/d	0.5	-	0.4
Acetone	0.0086	0.0336	-	0.0254
Anthracene	n/d	19.0	-	15.0
Benzo(a)pyrene	n/d	-	-	8.3
Benzo(a)anthracene	n/d	13.0	-	13.0
Benzo(GHI)perylene	n/d	9.9	-	-
Chrysene	n/d	30.0	-	32.0
Methylene Chloride	0.0028	0.0197	-	0.0173
Methylethyl Ketone	0.0064	0.03	-	0.0228
2-Methylnaphthalene	n/d	43.0	-	41.0
Naphthalene	n/d	-	-	5.5
Phenanthrene	n/d	99.0	-	86.0
Pyrene	n/d	79.0	-	130.0
Toluene	n/d	-	-	0.00254

Table 4: Analytical Results for Sediment Samples (ppm)*

Sample ID	OH-SD-6 (background)	OH-SD-1	OH-SD-2	OH-SD-3	OH-SD-4	OH-SD-5	OH-SD-7 (duplicate of OH-SD- 4)
Substance							
Lead	37.0	111.0	168.0	116.0	-	-	-
Acetone	0.0084	-	0.1226	0.372	0.061	0.0515	0.106
Benzene	n/d	0.0019	0.004	-	-	-	-
Methylethyl Ketone	0.0075	-	0.0518	0.132	0.0255	-	-
Toluene	n/d	-	-	0.0294	-	-	0.0236
Xylenes	n/d	0.0035	-	-	-	-	-

Table 5: Analytical Results for Soil Samples (ppm)*

Sample ID	OH-SS-6 (background)	OH-SS-1	OH-SS-2	OH-SS-3	OH-SS-4	OH-SS-7 (duplicate of OH-SS-2)
Substance						
Lead	12.0	-	204.0	92.0	120.0	179.0
Benzene	n/d	-	-	-	0.00287	-
Methylene Chloride	0.0028	0.027	0.0281	-	-	-
Xylenes	n/d	-	0.0032	-	-	0.005

n/d - not detected

* The above information represents samples which showed elevated levels of contaminants (i. e. 3x background). The laboratory analyses for all sample points are provided in Reference 6.

The detection limits for SEL are provided in its Quality Assurance Plan (Reference 8).

Figure 1: Site Location Map

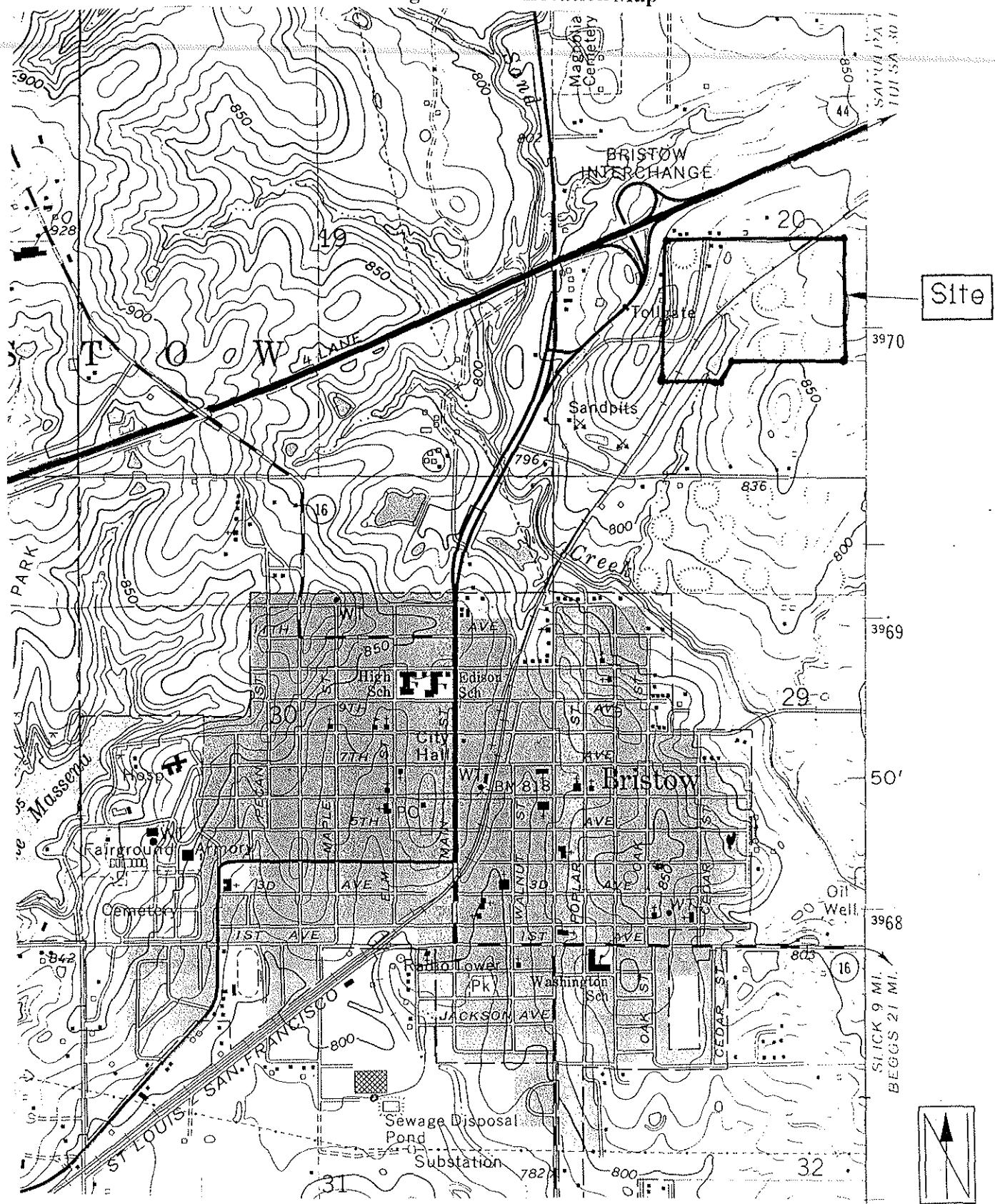
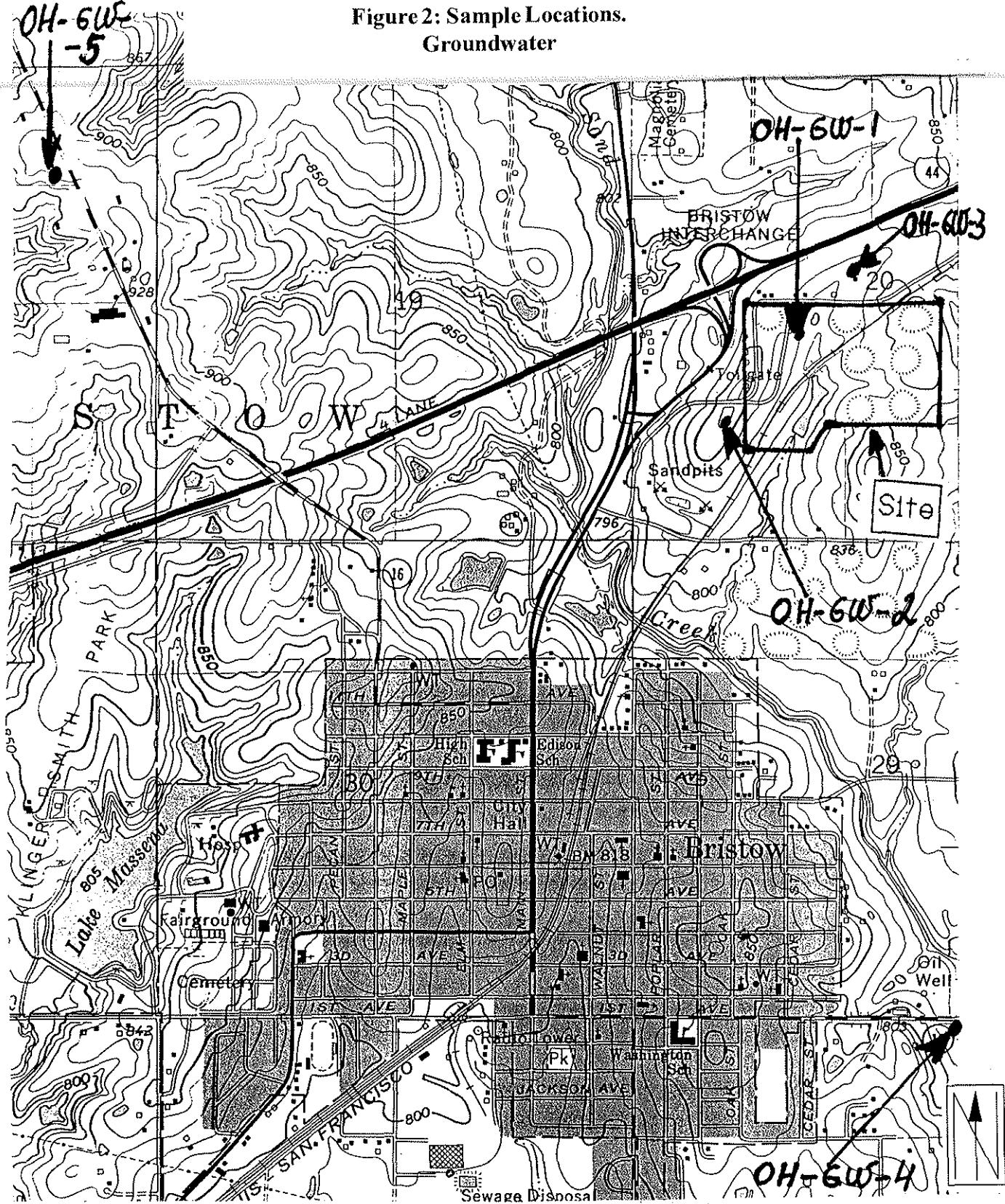


Figure 2: Sample Locations.
Groundwater



**Figure 3: Sample Locations.
Surface Water, Waste, Soil, and Sediment**

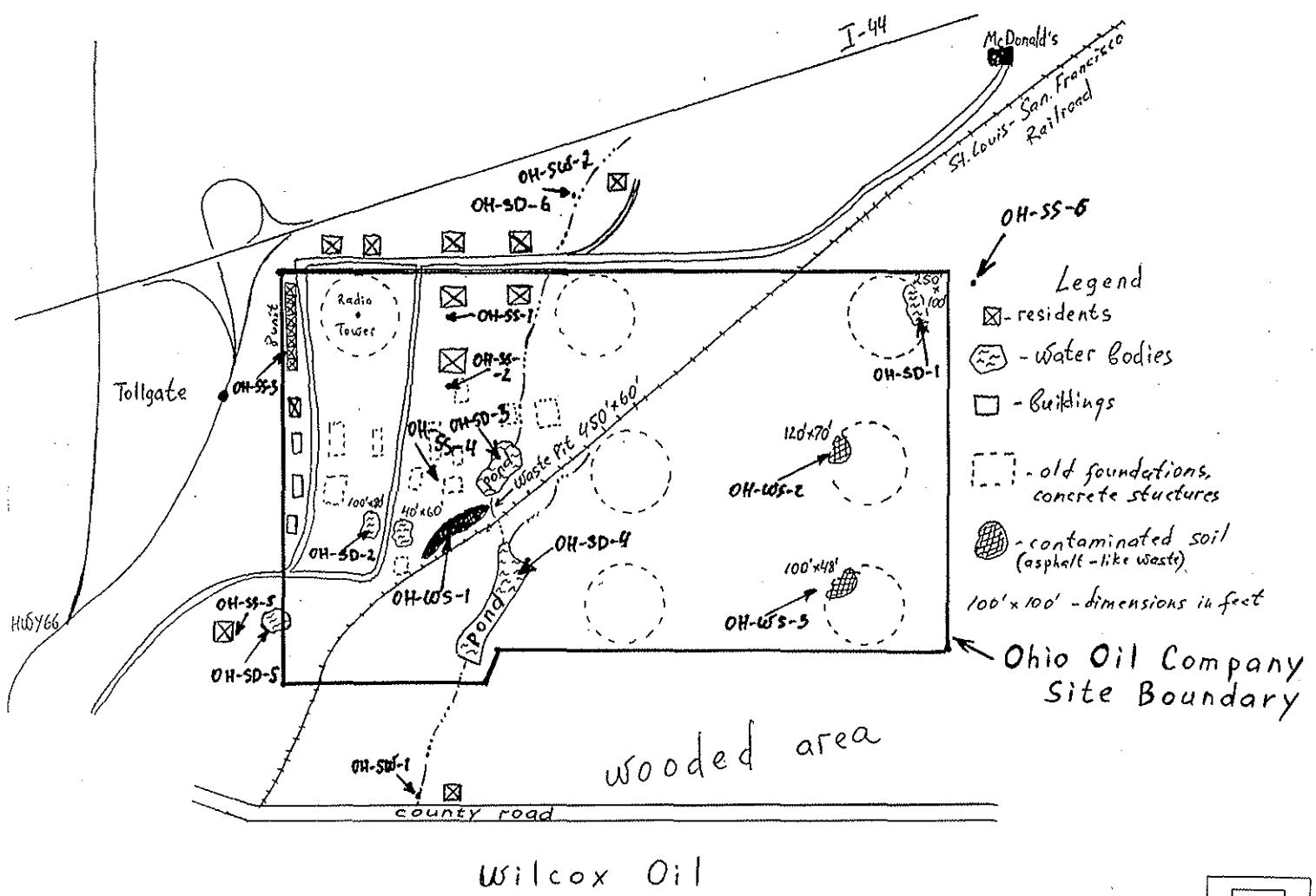
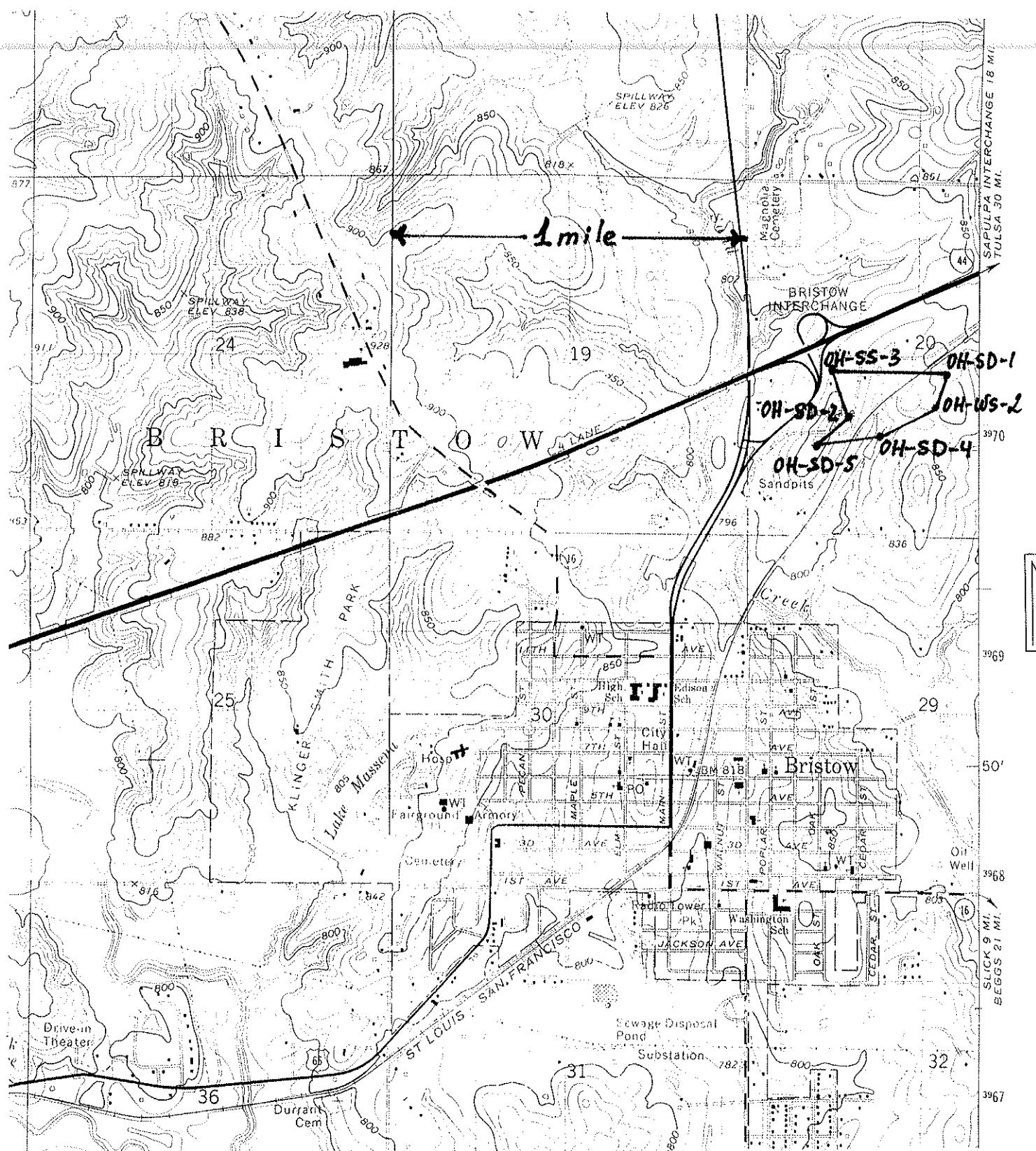


Figure 4: Area of Observed Soil Contamination



PHOTODOCUMENTATION

SS *KK*
Photographer: Scott Stegmann **Witness:** Karen Khalafian
Date: 3/24/98 **Direction:** Looking southwest



Comments: Photograph 1 (matches slide # 6). This picture shows the central portion of the waste pit area located on the central portion of the site (OH-WS-1).

SS *KK*
Photographer: Scott Stegmann **Witness:** Karen Khalafian
Date: 3/24/98 **Direction:** Looking west



Comments: Photograph 2 (matches slide # 5). This picture shows the wetland on the former location of the refinery plant (OH-SD-2).

H

KK

Photographer: Hal Cantwell **Witness:** Karen Khalafian
Date: 3/25/98 **Direction:** Looking southeast



Comments: Photograph 3 (matches slide # 12). This picture shows the old refinery-related structures on [REDACTED] property (OH-SS-2).

4 *KK*
Photographer: Hal Cantwell **Witness:** Karen Khalaian
Date: 3/25/98 **Direction:** Looking southeast



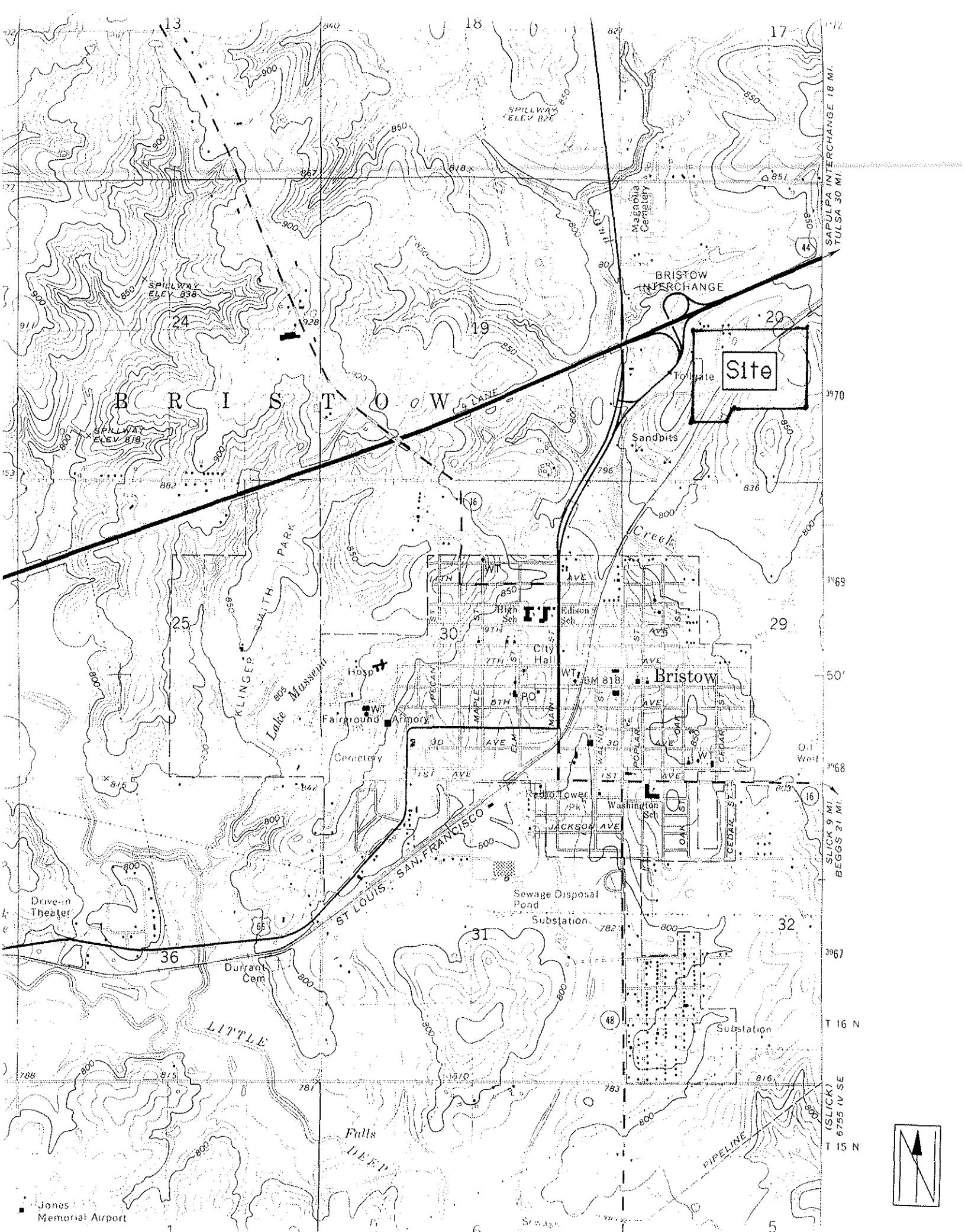
Comments: Photograph 4 (matches slide # 14). This picture shows an area with tar-like material on (b) (6) residence.

REFERENCE LIST

1. United States Geological Survey. *7.5 Minute Quadrangle Topographic Map of Bristow, OK* (1973).
2. State of Oklahoma, Department of Environmental Quality (ODEQ). *Preliminary Assessment, Ohio Oil Company, Bristow, Oklahoma, Creek County, OK0001981349*. March 31, 1997.
3. ODEQ. *Sampling and Analysis Plan. Ohio Oil Company, Creek County, Oklahoma, OK0001981349*. February 23, 1998.
4. ODEQ. *Ohio Oil Company SI Field Logbook*. March 24-25, 1998.
5. ODEQ. Ohio Oil Company SI. *Consent For Access To Property*. 1998.
6. ODEQ. State Environmental Laboratory. *Report of Analysis by Metal Laboratory. Report of Analysis by Gas Chromatograph with Mass Spectrometer detection (GCMS) Laboratory*. April – May, 1998.
7. U.S. Department of Commerce. *Rainfall Frequency Atlas of the United States*. May 1961.
8. ODEQ. State Environmental Laboratory. *Quality Assurance Plan*. 1998.

REFERENCES

REFERENCE 1



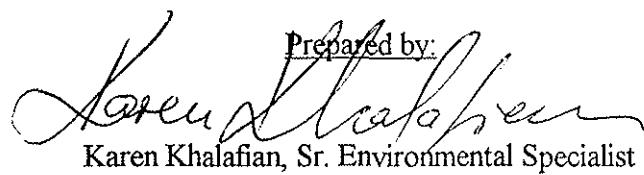
REFERENCE 2

PRELIMINARY ASSESSMENT
of the
OHIO OIL COMPANY
(EPA ID # not yet assigned)

located in
BRISTOW, CREEK COUNTY, OKLAHOMA

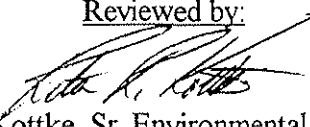
STATE OF OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Prepared by:



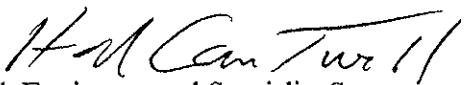
Karen Khalafian
Karen Khalafian, Sr. Environmental Specialist

Reviewed by:



Rita R. Kottke
Rita R. Kottke, Sr. Environmental Specialist

Approved by:



Hal Cantwell
Hal Cantwell, Environmental Specialist Supervisor

March 31, 1997

REFERENCE 3

SITE INSPECTION SAMPLING AND ANALYSIS PLAN
OHIO OIL COMPANY SITE
CREEK COUNTY, OKLAHOMA
OK0001981349

February 23, 1998

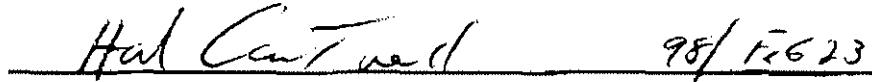
STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

DEQ Project Manager
Ohio Oil Company Site

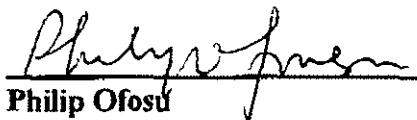
APPROVAL


Karen Khalafian 02-23-98
Karen Khalafian Date

DEQ Site Assessment
Unit Supervisor


Hal Cantwell 98/1/23
Hal Cantwell Date

EPA-Region 6 Site
Assessment Manager


Philip Ofosu 03 - 03 - 98
Philip Ofosu Date

REFERENCE 4

CONTENTS

PAGE NO.	REFERENCE	DATE

<p style="text-align: center;"><i>Ohio Oil Company SI OK0001981349</i></p> <p style="text-align: center;"><i>Site area: ~ 70 acres, including refinery plant area and tank farm.</i></p>	
--	--

Date: 03-24-98

Meteorological Conditions:

Sunny, 65°F

SE Wind - 5 mph

Date: 03-25-98

Meteorological Conditions:

Cloudy 65°F - 70°F

SE Wind - 5-10 mph

2

Date: 03-24-98 Time: 11:05 am

Sample # OH-SD-1

Appearance: Brown clay

Sampler: Karen Khalafoglu, Scott Stegeman

Comments:

Sample was collected from
the wetland on K. Fugate's
property (NE portion of
the site)

Date: 03-24-98 Time: 11:30am

Sample # OH-W5-2

Appearance: Reddish clayey silt

Sampler: Scott Segura Korea
Khalafian

Comments:

The sample was collected from
the former tank berm. During
the sampling event the waste pit
area was under water.

The area \approx 120' x 70' x
 \approx 8400 sq. ft.

Date: 03-24-98 Time: 11:45am

Sample # OH-WS-3

Appearance: Sufficiently black sludge
($\frac{1}{4}$ of inch), then reddish brown dry site

Sampler: Karen Khalafas, Scott
Stegmanna

Comments:

The majority of the pit was
covered by water. Sample
was collected from an area
not covered by water.

Date: 03-24-98 Time: 12:15pm

Sample #: OH-SD-4

Appearance: Dark Brown silty

Sampler: Scott Stegman Karen
Khalafian

Comments:

Sample was collected
at the edge of the pond
(b) (6)
on [REDACTED] property.

6

Date: 03-24-98 Time: 12:15pm

Sample #: OH-SD-7 (duplicate
of OH-SD-4)

Appearance:

Sampler:

Comments:

7

Date: 03-24-98 Time: 01:30 pm

Sample # OH-6W-4 (M.W. #16)

Appearance: transparent

Sampler: Scott Stegman

Comments:

1. $t^o = 12.5^oC$ conduct. 290 pH 6.66

5 min later

2. $t^o = 15^oC$ conduct. 282 pH 6.66

5 min later

3. $t^o = 15^oC$ conduct. 282 pH 6.65

Photo # 1

Date: 03-24-98 Time: 02:15pm

Sample # OH-GW-S (M.W.#22)

Appearance:

Sampler: Karen Khalafyan

Comments:

$T^{\circ} 19^{\circ}\text{C}$ conduct. 405 pH 6.66

Same later

$T^{\circ} 18.5^{\circ}\text{C}$ conduct. 400 pH 6.99

Same later

$T^{\circ} 18.0^{\circ}\text{C}$ conduct. 400 pH 7.00

Photo # 2

Date: 03-24-98 Time: 2:40pm

Sample # OH-SW-1

Appearance: The water is brownish

Sampler: Scott Stegman
Karen Kraljic

Comments:

The intermittent stream was
sampled west of the [REDACTED]
(b) (6)
house, about 40 feet north
of the county road.

Photo #3

Date: 03-28-94 Time: 3:20pm

Sample #: OH-SD-2

Appearance: Brown/dark silt

Sampler: Karen Khalafian
Scott Stegmann

Comments:

The sample was collected
from the wetland on the
former location of the
refinery plant.

Photo #85

Date: 03-24-98 Time: 3:50 pm

Sample # OH-WS-1

Appearance: Black, grainy coal-type material (soil)

Sampler: Karen Khalafar
Scott Stegman

Comments:

Pit area on the central portion of the site.

Odor was detected during sampling procedure.

Photo # 6

12

Date: 03-24-98 Time: 3:50pm

Sample # OH-W5-4 (duplicate
of OH-W5-1)

Appearance:

Sampler:

Comments:

Date: 03-28-98 Time: 4:20pm

Sample # OH-GW-3

Appearance: transparent water

Sampler: Karen Khalafian

Comments: transparent water
depth of the well - 100feet

t° 18°C cond. 310 pH 6.99

t° 18°C cond. 310 pH 6.81

t° 18°C cond. 310 pH 7.06

Date: 05-24-98 Time: 4:00pm

Sample #: OH-SW-2

Appearance: Brackish Water

Sampler: Scott Stegmann

Comments:

Sample was collected near

(b) (6)

residence

Photo # 7

Date: 03-28-98 Time: 4:30

Sample # OH-SS-6

Appearance: Brown (dark) soil

Sampler: Karen Khalafian

Comments: The sample
was collected east of the site on
the same type of soil ([REDACTED] (b) (6)
property)

Photo # 4

Date: 03-25-98 Time: 9:30 am

Sample # OH-CW-2

Appearance: transparent water

Sampler: K. Kalsfjord H. Caldwell

Comments:

t° 17°C cond. 270 pH 7.02

after Sains

t° 17°C cond 265 pH 7.01

after Sains

t° 17° cond 265 pH 6.99

Photo # 8

Date: 03-25-98 Time: 09:55am

Sample # OH-SD-5

Appearance: Brown clay

Samplers: K. Khefajian H. Cutwell

Comments:

The sample was taken
from the pond on (b) (6) property

Photo # 9

Date: 03-25-98 Time: 10:05am

Sample # OH-SS-3

Appearance: Dark brown soil

Sampler: K. Khalafia & Castell

Comments: The sample was taken from the backyard of the apartment building.

Area of the Building ~ 4000 sq. ft.

Photo #10

19

Date: 03-25-98 Time: 10:45am

Sample #: OH-GW-1

Appearance: transparent water

Sampler: Karen Khalafian

Comments: depth of the well = 90ft

$t^{\circ} = 18^{\circ}\text{C}$ conduct. 150 pH 6.91

after Swin

$t^{\circ} 18^{\circ}\text{C}$ conduct. 145 pH 6.85

after Swin conduct. 145 pH

$t 18^{\circ}\text{C}$ 150 6.85

Photo # 11

20

Date: 03-25-98 Time: 10:45am

Sample # OH-GW-6 (Duplicate
of OH-GW-1)

Appearance:

Sampler:

Comments:

Date: 03-25-98 Time: 10:45 am

Sample # OH-3S-2

Appearance: brown (dark) with
some coke-like material soil

Sampler: H. Cantwell

Comments: Sample was taken

at the (b) (6) property near
old refinery-related structures

& people are living on the property.
Area of the buildings \approx 650 sq ft

Photo # 12

Date: 03-28-98 Time 10:45am

Sample # OH-~~Q~~55-7
(duplicate of OH552)

Appearance:

Sample:

Comments:

23

Date: 03-25-98 Time: 11:05 am

Sample # OH-SD-3

Appearance: Brown sediment.

Sampler: H. Canfield

Comments:

(b) (6)

showed

an area with tar-like material.

Dimensions: 60' x 30' - Photo #14

Photo # 13

Date: 03-25-98 Time: 11:50 am

Sample #: OH-SS-1

Appearance: Brown soil

Sampler: K. Khalafian

Comments:

(b) (6)

kes

2 horses, about 30 chickens, and
3 pigs

Area of buildings on the property:

~ 2000 sq. feet

6 people (2 children) are living
on the property

Photo #15

25

Date: 03-25-98 Time: 12:10 am

Sample # OH-SD-6

Appearance: Brown sediment

Sampler: K. Khalafian
H. Cantwell

Comments: The sample was
taken from the intermittent
stream on [REDACTED] residence.
(b) (6)

Photo #16

26

Date: 03-25-98 Time: 12:20pm

Sample# OH-55-4

Appearance: Brown soil

Sampler: H. Cantwell

Comments: The sample was collected near old refinery structures on the former location of the refinery plant.

Photo #17

Date: 03-25-98 Time: 12:50pm

Sample #: OH-SS-5

Appearance: Brown sandy soil

Sampler: H. Canfield

Comments: Sample was taken from backyard
of the [REDACTED] residence

(b) (6)
3 people (1 child) are living on the property.

Photo #18

Area of the buildings \approx 5000sq.-ft

3 residences, 8-unit apartment
building on-site.

6 residences within 200 feet
of the site.

Date:

Time:

Sample # OH-

Appearance:

Sampler:

Comments:

REFERENCE 5

RECEIVED

MAR 05 1998

WASTE MANAGEMENT
DIVISION

Consent For Access To Property

Name of Owner: (b) (6)

Address:
N. Sperry OK 74073

Project Name: Ohio Oil Company Site Inspection

EPA Site ID#: OK0001981349

Location of Property (b) (6) Creek County

I hereby consent to allow Department of Environmental Quality (DEQ) personnel to enter the property specified above on March 25, 1998, for the express purpose of collecting environmental samples for a Site Inspection. I understand that the results of the sampling will be included in a Site Inspection report, which will be prepared by the DEQ for review by the U.S. Environmental Protection Agency, under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act.

(b) (6)

Signature

2-26-98
Date

Karen K.

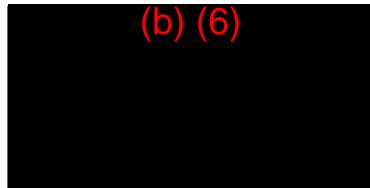
RECEIVED /
FEB 27 1998
Waste Management
Division

Consent For Access To Property

Name of Owner:

(b) (6)

Address:



Bristow OK 74010

Project Name: Ohio Oil Company Site Inspection

EPA Site ID#: OK0001981349

Location of Property

(b) (6)

Creek County

I hereby consent to allow Department of Environmental Quality (DEQ) personnel to enter the property specified above on March 25, 1998, for the express purpose of collecting environmental samples for a Site Inspection. I understand that the results of the sampling will be included in a Site Inspection report, which will be prepared by the DEQ for review by the U.S. Environmental Protection Agency, under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act.

(b) (6)

Signature

2-26-98
Date

Karen K

RECEIVED

MAR 25 1998

WASTE MANAGEMENT
DIVISION

Consent For Access To Property

(b) (6)

Name of Owner:

Address:

Bristow OK 74010

Project Name: Ohio Oil Company Site Inspection

EPA Site ID#: OK0001981349

Location of Property: (b) (6) Creek County

I hereby consent to allow Department of Environmental Quality (DEQ) personnel to enter the property specified above on March 25, 1998, for the express purpose of collecting environmental samples for a Site Inspection. I understand that the results of the sampling will be included in a Site Inspection report, which will be prepared by the DEQ for review by the U.S. Environmental Protection Agency, under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act.

(b) (6)

Signature

2-27-98

Date

Karen K.

RECEIVED

MAR 03 1998

WASTE MANAGEMENT
DIVISION

Consent For Access To Property

(b) (6)

Name of Owner:

Address:

Tulsa OK 74112

Project Name: Ohio Oil Company Site Inspection

EPA Site ID#: OK0001981349

Location of Property: (b) (6) Creek County

I hereby consent to allow Department of Environmental Quality (DEQ) personnel to enter the property specified above on March 25, 1998, for the express purpose of collecting environmental samples for a Site Inspection. I understand that the results of the sampling will be included in a Site Inspection report, which will be prepared by the DEQ for review by the U.S. Environmental Protection Agency, under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act.

(b) (6)

Signature

2-21-98

Date

Karen K.

RECEIVED

MAR 03 1998

WASTE MANAGEMENT
DIVISION

Consent For Access To Property

Name of Owner: City of Bristow

Address: Bristow OK 74010

Project Name: Ohio Oil Company Site Inspection

EPA Site ID#: OK0001981349

Location of Property: Sec. 20, Twn. 16 N, Rge. 09 E, Creek County

I hereby consent to allow Department of Environmental Quality (DEQ) personnel to enter the property specified above on March 25, 1998, for the express purpose of collecting environmental samples for a Site Inspection. I understand that the results of the sampling will be included in a Site Inspection report, which will be prepared by the DEQ for review by the U.S. Environmental Protection Agency, under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act.


Signature

2-27-98
Date

Karen K.

RECEIVED

MAR 05 1998

WASTE MANAGEMENT
DIVISION

Consent For Access To Property

(b) (6)

Name of Owner:

Address:

Bristow OK 74010

Project Name: Ohio Oil Company Site Inspection

EPA Site ID#: OK0001981349

Location of Property

(b) (6)

Creek County

I hereby consent to allow Department of Environmental Quality (DEQ) personnel to enter the property specified above on March 25, 1998, for the express purpose of collecting environmental samples for a Site Inspection. I understand that the results of the sampling will be included in a Site Inspection report, which will be prepared by the DEQ for review by the U.S. Environmental Protection Agency, under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act.

(b) (6)

Signature

3-1-98

3-1-98

Date

Karen K

RECEIVED

MAR 05 1998

WASTE MANAGEMENT
DIVISION

Consent For Access To Property

(b) (6)

Name of Owner:

Address:

Bristow OK 74010

Project Name: Ohio Oil Company Site Inspection

EPA Site ID#: OK0001981349

(b) (6)

Location of Property:

Creek County

I hereby consent to allow Department of Environmental Quality (DEQ) personnel to enter the property specified above on March 25, 1998, for the express purpose of collecting environmental samples for a Site Inspection. I understand that the results of the sampling will be included in a Site Inspection report, which will be prepared by the DEQ for review by the U.S. Environmental Protection Agency, under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act.

(b) (6)

Signature

3-3-98

Date

Karen K.

MARK S. COLEMAN
Executive Director



FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

February 24, 1998

(b) (6)

Bristow OK 74010

Dear [REDACTED]

(b) (6)

The purpose of this letter is to request your voluntary consent for Department of Environmental Quality (DEQ) personnel to enter your property located approximately 1½ mile northeast of Bristow on March 25, 1998, for the purpose of conducting a Site Inspection (SI). The SI expands upon the information gathered during the Preliminary Assessment of the Ohio Oil Company site completed in March, 1997. The DEQ is conducting the SI of the former refinery partially located on your property under the authority of the U.S. Environmental Protection Agency (EPA).

The Site Inspection is a preliminary investigation that attempts to characterize a site by collecting environmental samples (water, soil) on and/or near the site. A Site Inspection attempts to determine what types of environmental hazards are at the site, if any, and if so, whether nearby properties been affected.

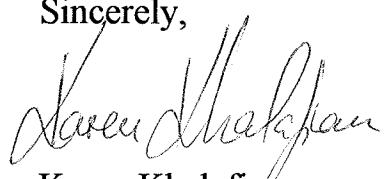
DEQ plans to collect soil, sediment, ground water, surface water, and waste samples during the investigation. It is anticipated that only groundwater, soil, and sediment samples will be taken from the property belonging to [REDACTED] (b) (6)

[REDACTED] (b) (6) These analyses will indicate the extent (if any) of contamination of the property and the surrounding area. DEQ will be responsible for interpreting the analyses and submitting a final SI report to EPA summarizing the results of the investigation. EPA will make a decision as to whether a threat to human health or the environment exists at the site and what (if anything) needs to be done at the site.

To indicate you're voluntarily agreeing to allow DEQ personnel on your property for the purpose of this sampling event scheduled March 25, 1998, please sign and date the enclosed document and mail it in the enclosed envelope.

I appreciate your cooperation in this investigation. If you have any questions, please feel free to call me at (405) 271-7137 or Hal Cantwell at (405) 271-7158.

Sincerely,



Karen Khalafian
Sr. Environmental Specialist
Site Assessment Unit
Waste Management Division

cc: Thomas Dennis, Creek County DEQ

Enclosure

MARK S. COLEMAN
Executive Director



FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

February 24, 1998

(b) (6)

N. Sperry OK 74073

(b) (6)

Dear [REDACTED]

The purpose of this letter is to request your voluntary consent for Department of Environmental Quality (DEQ) personnel to enter your property located approximately 1½ mile northeast of Bristow on March 25, 1998, for the purpose of conducting a Site Inspection (SI). The SI expands upon the information gathered during the Preliminary Assessment of the Ohio Oil Company site completed in March, 1997. The DEQ is conducting the SI of the former refinery partially located on your property under the authority of the U.S. Environmental Protection Agency (EPA).

The Site Inspection is a preliminary investigation that attempts to characterize a site by collecting environmental samples (water, soil) on and/or near the site. A Site Inspection attempts to determine what types of environmental hazards are at the site, if any, and if so, whether nearby properties been affected.

DEQ plans to collect soil, sediment, ground water, surface water, and waste samples during the investigation. It is anticipated that only soil, waste, and sediment samples will be taken from the property belonging to [REDACTED] (b) (6). These analyses will indicate the extent (if any) of contamination of the property and the surrounding area. DEQ will be responsible for interpreting the analyses and submitting a final SI report to EPA summarizing the results of the investigation. EPA will make a decision as to whether a threat to human health or the environment exists at the site and what (if anything) needs to be done at the site.

To indicate you're voluntarily agreeing to allow DEQ personnel on your property for the purpose of this sampling event scheduled March 25, 1998, please sign and date the enclosed document and mail it in the enclosed envelope.

I appreciate your cooperation in this investigation. If you have any questions, please feel free to call me at (405) 271-7137 or Hal Cantwell at (405) 271-7158.

Sincerely,

A handwritten signature in black ink, appearing to read "Karen Khalafian".

Karen Khalafian
Sr. Environmental Specialist
Site Assessment Unit
Waste Management Division

cc: Thomas Dennis, Creek County DEQ

Enclosure

REFERENCE 6

SAMPLE NUMBER: 260339

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 10:45

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

DATE REPORTED: 04/02/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC-TOTAL	01002	<	60.000	UG/L	6010
BARIUM TOTAL	01007		32.000	UG/L	6010
BERYLLIUM TOTAL	01012	<	10.000	UG/L	6010
CADMIUM-TOTAL	01027	<	5.000	UG/L	6010
CHROMIUM-TOTAL	01034	<	10.000	UG/L	6010
COPPER-TOTAL	01042		15.000	UG/L	6010
LEAD-TOTAL	01051	<	50.000	UG/L	6010
THALLIUM TOTAL	01059	<	200.000	UG/L	6010
NICKEL-TOTAL	01067	<	25.000	UG/L	6010
SILVER-TOTAL	01077	<	10.000	UG/L	6010
ZINC-TOTAL	01092		12.000	UG/L	6010
ANTIMONY TOTAL	01097	<	350.000	UG/L	6010
SELENIUM-TOTAL	01147	<	70.000	UG/L	6010
MERCURY-TOTAL	71900	<	0.500	UG/L	7470

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-GW-1

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Department of Environmental Quality
Metal Laboratory

SAMPLE NUMBER: 260340

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 09:30

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

DATE REPORTED: 04/02/98

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC-TOTAL	01002	<	60.000	UG/L	6010
BARIUM TOTAL	01007	<	10.000	UG/L	6010
BERYLLIUM TOTAL	01012	<	10.000	UG/L	6010
CADMIUM-TOTAL	01027	<	5.000	UG/L	6010
CHROMIUM-TOTAL	01034	<	10.000	UG/L	6010
COPPER-TOTAL	01042		126.000	UG/L	6010
LEAD-TOTAL	01051	<	50.000	UG/L	6010
THALLIUM TOTAL	01059	<	200.000	UG/L	6010
NICKEL-TOTAL	01067	<	25.000	UG/L	6010
SILVER-TOTAL	01077	<	10.000	UG/L	6010
ZINC-TOTAL	01092		9.000	UG/L	6010
ANTIMONY TOTAL	01097	<	350.000	UG/L	6010
SELENIUM-TOTAL	01147	<	70.000	UG/L	6010
MERCURY-TOTAL	71900	<	0.500	UG/L	7470

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-GW-2

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Department of Environmental Quality Laboratory

SAMPLE NUMBER: 260341

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 16:20

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

DATE REPORTED: 04/02/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC-TOTAL	01002	<	60.000	UG/L	6010
BARIUM TOTAL	01007		72.000	UG/L	6010
BERYLLIUM TOTAL	01012	<	10.000	UG/L	6010
CADMUM-TOTAL	01027	<	5.000	UG/L	6010
CHROMIUM-TOTAL	01034	<	10.000	UG/L	6010
COPPER-TOTAL	01042		12.000	UG/L	6010
LEAD-TOTAL	01051	<	50.000	UG/L	6010
THALLIUM TOTAL	01059	<	200.000	UG/L	6010
NICKEL-TOTAL	01067	<	25.000	UG/L	6010
SILVER-TOTAL	01077	<	10.000	UG/L	6010
ZINC-TOTAL	01092		12.000	UG/L	6010
ANTIMONY TOTAL	01097	<	350.000	UG/L	6010
SELENIUM-TOTAL	01147	<	70.000	UG/L	6010
MERCURY-TOTAL	71900	<	0.500	UG/L	7470

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-GW-3

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Department of Environmental Quality
Metal Laboratory

SAMPLE NUMBER: 260342

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 13:30

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

DATE REPORTED: 04/02/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC-TOTAL	01002	<	60.000	UG/L	6010
BARIUM TOTAL	01007		46.000	UG/L	6010
BERYLLIUM TOTAL	01012	<	10.000	UG/L	6010
CADMIUM-TOTAL	01027	<	5.000	UG/L	6010
CHROMIUM-TOTAL	01034	<	10.000	UG/L	6010
COPPER-TOTAL	01042	<	10.000	UG/L	6010
LEAD-TOTAL	01051	<	50.000	UG/L	6010
THALLIUM TOTAL	01059	<	200.000	UG/L	6010
NICKEL-TOTAL	01067	<	25.000	UG/L	6010
SILVER-TOTAL	01077	<	10.000	UG/L	6010
ZINC-TOTAL	01092		157.000	UG/L	6010
ANTIMONY TOTAL	01097	<	350.000	UG/L	6010
SELENIUM-TOTAL	01147	<	70.000	UG/L	6010
MERCURY-TOTAL	71900	<	0.500	UG/L	7470

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-GW-4

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Environmental Laboratory

SAMPLE NUMBER: 260343

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 14:15

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

DATE REPORTED: 04/02/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC-TOTAL	01002	<	60.000	UG/L	6010
BARIUM TOTAL	01007		263.000	UG/L	6010
BERYLLIUM TOTAL	01012	<	10.000	UG/L	6010
CADMIUM-TOTAL	01027	<	5.000	UG/L	6010
CHROMIUM-TOTAL	01034	<	10.000	UG/L	6010
COPPER-TOTAL	01042	<	10.000	UG/L	6010
LEAD-TOTAL	01051	<	50.000	UG/L	6010
THALLIUM TOTAL	01059	<	200.000	UG/L	6010
NICKEL-TOTAL	01067	<	25.000	UG/L	6010
SILVER-TOTAL	01077	<	10.000	UG/L	6010
ZINC-TOTAL	01092		14.000	UG/L	6010
ANTIMONY TOTAL	01097	<	350.000	UG/L	6010
SELENIUM-TOTAL	01147	<	70.000	UG/L	6010
MERCURY-TOTAL	71900	<	0.500	UG/L	7470

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-GW-5

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Environmental Laboratory

SAMPLE NUMBER: 260344

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 10:45

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

DATE REPORTED: 04/02/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC-TOTAL	01002	<	60.000	UG/L	6010
BARIUM TOTAL	01007		33.000	UG/L	6010
BERYLLIUM TOTAL	01012	<	10.000	UG/L	6010
CADMIUM-TOTAL	01027	<	5.000	UG/L	6010
CHROMIUM-TOTAL	01034	<	10.000	UG/L	6010
COPPER-TOTAL	01042		15.000	UG/L	6010
LEAD-TOTAL	01051	<	50.000	UG/L	6010
THALLIUM TOTAL	01059	<	200.000	UG/L	6010
NICKEL-TOTAL	01067	<	25.000	UG/L	6010
SILVER-TOTAL	01077	<	10.000	UG/L	6010
ZINC-TOTAL	01092		10.000	UG/L	6010
ANTIMONY TOTAL	01097	<	350.000	UG/L	6010
SELENIUM-TOTAL	01147	<	70.000	UG/L	6010
MERCURY-TOTAL	71900	<	0.500	UG/L	7470

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-GW-6

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Environmental Laboratory

SAMPLE NUMBER: 260345

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 14:40

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

DATE REPORTED: 04/02/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE				PAGE
	CODE	<	VALUE	UNITS	METHOD
ARSENIC-TOTAL	01002	<	60.000	UG/L	6010
BARIUM TOTAL	01007		72.000	UG/L	6010
BERYLLIUM TOTAL	01012	<	10.000	UG/L	6010
CADMIUM-TOTAL	01027	<	5.000	UG/L	6010
CHROMIUM-TOTAL	01034	<	10.000	UG/L	6010
COPPER-TOTAL	01042	<	10.000	UG/L	6010
LEAD-TOTAL	01051	<	50.000	UG/L	6010
THALLIUM TOTAL	01059	<	200.000	UG/L	6010
NICKEL-TOTAL	01067	<	25.000	UG/L	6010
SILVER-TOTAL	01077	<	10.000	UG/L	6010
ZINC-TOTAL	01092		22.000	UG/L	6010
ANTIMONY TOTAL	01097	<	350.000	UG/L	6010
SELENIUM-TOTAL	01147	<	70.000	UG/L	6010
MERCURY-TOTAL	71900	<	0.500	UG/L	7470

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SW-1

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Environmental Laboratory

SAMPLE NUMBER: 260346

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 16:00

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

DATE REPORTED: 04/02/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	
ARSENIC-TOTAL	01002	<	60.000	UG/L	6010
BARIUM TOTAL	01007		97.000	UG/L	6010
BERYLLIUM TOTAL	01012	<	10.000	UG/L	6010
CADMIUM-TOTAL	01027	<	5.000	UG/L	6010
CHROMIUM-TOTAL	01034		11.000	UG/L	6010
COPPER-TOTAL	01042	<	10.000	UG/L	6010
LEAD-TOTAL	01051	<	50.000	UG/L	6010
THALLIUM TOTAL	01059	<	200.000	UG/L	6010
NICKEL-TOTAL	01067	<	25.000	UG/L	6010
SILVER-TOTAL	01077	<	10.000	UG/L	6010
ZINC-TOTAL	01092		49.000	UG/L	6010
ANTIMONY TOTAL	01097	<	350.000	UG/L	6010
SELENIUM-TOTAL	01147	<	70.000	UG/L	6010
MERCURY-TOTAL	71900	<	0.500	UG/L	7470

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SW-2

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Environmental Laboratory

SAMPLE NUMBER: 260347

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 11:05

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		64.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMIUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		16.000	MG/KG	6010
COPPER IN SEDIMENT	01039		5.000	MG/KG	6010
LEAD IN SEDIMENT	01052		111.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		9.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		23.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SD-1

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
State Environmental Laboratory

SAMPLE NUMBER: 260348

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 15:20

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		38.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		10.000	MG/KG	6010
COPPER IN SEDIMENT	01039		10.000	MG/KG	6010
LEAD IN SEDIMENT	01052		168.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		7.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		27.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SD-2

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
State Environmental Laboratory

SAMPLE NUMBER: 260349

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 11:05

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		50.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		9.000	MG/KG	6010
COPPER IN SEDIMENT	01039		8.000	MG/KG	6010
LEAD IN SEDIMENT	01052		116.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		7.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		48.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	2.500	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SD-3

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Environmental Laboratory

SAMPLE NUMBER: 260350

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 12:15

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		38.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMIUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		4.000	MG/KG	6010
COPPER IN SEDIMENT	01039		6.000	MG/KG	6010
LEAD IN SEDIMENT	01052		12.000	MG/KG	6010
NICKEL IN SEDIMENT	01068	<	5.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		9.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SD-4

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Environmental Laboratory

SAMPLE NUMBER: 260351

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 09:55

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		49.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMIUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		18.000	MG/KG	6010
COPPER IN SEDIMENT	01039		6.000	MG/KG	6010
LEAD IN SEDIMENT	01052	<	9.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		24.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		19.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SD-5

ANALYST'S COMMENTS:

ANALYST


Cliff Petres
Oklahoma Department of Environmental Quality

SAMPLE NUMBER: 260352

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 12:10

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE				PAGE
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		116.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMIUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		25.000	MG/KG	6010
COPPER IN SEDIMENT	01039		10.000	MG/KG	6010
LEAD IN SEDIMENT	01052		37.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		16.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		127.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SD-6

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Environmental Laboratory

SAMPLE NUMBER: 260353

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 12:15

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/09/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE				PAGE
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		52.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMIUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		7.000	MG/KG	6010
COPPER IN SEDIMENT	01039		8.000	MG/KG	6010
LEAD IN SEDIMENT	01052		14.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		6.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		13.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SD-7

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
State Environmental Laboratory

SAMPLE NUMBER: 260354

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 11:50

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/09/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		52.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		12.000	MG/KG	6010
COPPER IN SEDIMENT	01039		4.000	MG/KG	6010
LEAD IN SEDIMENT	01052		13.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		6.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		27.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SS-1

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Environmental Laboratory

SAMPLE NUMBER: 260355

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 10:45

DATE RECEIVED: 03/25/98

DATE COMPLETED: 04/08/98

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/20/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		53.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMUIM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		10.000	MG/KG	6010
COPPER IN SEDIMENT	01039		19.000	MG/KG	6010
LEAD IN SEDIMENT	01052		204.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		8.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		25.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMAPNY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SS-2

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
State Environmental Laboratory

SAMPLE NUMBER: 260356

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 10:05

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		78.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMIUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		19.000	MG/KG	6010
COPPER IN SEDIMENT	01039		9.000	MG/KG	6010
LEAD IN SEDIMENT	01052		92.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		13.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		92.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SS-3

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Environmental Laboratory

SAMPLE NUMBER: 260357

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 12:20

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE				PAGE	1
	CODE	<	VALUE	UNITS		
ARSENIC IN SEDIMENT	01003	<	24.000	MG/KG	6010	
BARIUM IN SEDIMENT	01008		40.000	MG/KG	6010	
BERYLLIUM IN SEDIMNT	01013	<	4.000	MG/KG	6010	
CADMUM IN SEDIMENT	01028	<	2.000	MG/KG	6010	
CHROMIUM IN SEDIMENT	01029		10.000	MG/KG	6010	
COPPER IN SEDIMENT	01039		21.000	MG/KG	6010	
LEAD IN SEDIMENT	01052		120.000	MG/KG	6010	
NICKEL IN SEDIMENT	01068	<	10.000	MG/KG	6010	
SILVER IN SEDIMENT	01078	<	4.000	MG/KG	6010	
ZINC IN SEDIMENT	01093		102.000	MG/KG	6010	
ANTIMONY IN SED	01098	<	140.000	MG/KG	6010	
SELENIUM IN SEDIMENT	01148	<	28.000	MG/KG	6010	
THALLIUM IN SEDIMENT	34480	<	80.000	MG/KG	6010	
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471	

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SS-4

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Environmental Laboratory

SAMPLE NUMBER: 260358

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 12:30

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008	<	24.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029	<	7.000	MG/KG	6010
COPPER IN SEDIMENT	01039	<	2.000	MG/KG	6010
LEAD IN SEDIMENT	01052	<	9.000	MG/KG	6010
NICKEL IN SEDIMENT	01068	<	5.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093	<	12.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SS-5

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Environmental Laboratory

SAMPLE NUMBER: 260359

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 16:30

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		97.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMUIM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		23.000	MG/KG	6010
COPPER IN SEDIMENT	01039		8.000	MG/KG	6010
LEAD IN SEDIMENT	01052		12.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		12.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		77.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SS-6

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Cato Environmental Laboratory

SAMPLE NUMBER: 260360
AGENCY NUMBER:

DATE COLLECTED: 03/24/98
TIME COLLECTED: 10:45
DATE RECEIVED: 03/25/98
DATE COMPLETED: / /
PWS ID:
STATION:
COLLECTED BY: KK
DATE REPORTED: 04/08/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE				PAGE
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		192.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMIUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		17.000	MG/KG	6010
COPPER IN SEDIMENT	01039		22.000	MG/KG	6010
LEAD IN SEDIMENT	01052		179.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		10.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		48.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-SS-7

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Department of Environmental Quality

SAMPLE NUMBER: 260361

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 15:50

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE			PAGE	1
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003		15.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		18.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMIUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		16.000	MG/KG	6010
COPPER IN SEDIMENT	01039		12.000	MG/KG	6010
LEAD IN SEDIMENT	01052		45.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		8.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		24.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921		0.500	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-WS-1

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Department of Environmental Quality

SAMPLE NUMBER: 260362

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 11:30

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE				PAGE	1
	CODE	<	VALUE	UNITS	METHOD	
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010	
BARIUM IN SEDIMENT	01008		24.000	MG/KG	6010	
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010	
CADMUM IN SEDIMENT	01028	<	1.000	MG/KG	6010	
CHROMIUM IN SEDIMENT	01029		9.000	MG/KG	6010	
COPPER IN SEDIMENT	01039		5.000	MG/KG	6010	
LEAD IN SEDIMENT	01052		953.000	MG/KG	6010	
NICKEL IN SEDIMENT	01068		5.000	MG/KG	6010	
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010	
ZINC IN SEDIMENT	01093		37.000	MG/KG	6010	
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010	
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010	
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010	
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471	

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

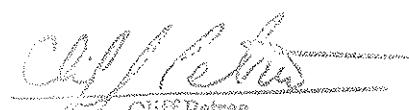
/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-WS-2

ANALYST'S COMMENTS:

ANALYST


Cliff Petres
Metals Laboratory
Environmental Quality

SAMPLE NUMBER: 260363

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 11:45

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 04/08/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE				PAGE
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	12.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		36.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	2.000	MG/KG	6010
CADMUM IN SEDIMENT	01028	<	1.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		12.000	MG/KG	6010
COPPER IN SEDIMENT	01039		3.000	MG/KG	6010
LEAD IN SEDIMENT	01052		18.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		6.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	2.000	MG/KG	6010
ZINC IN SEDIMENT	01093		18.000	MG/KG	6010
ANTIMONY IN SED	01098	<	70.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	14.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	40.000	MG/KG	6010
MERCURY IN SEDIMENT	71921	<	0.250	MG/KG	7471

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK

CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-WS-3

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Metals Laboratory Analyst

SAMPLE NUMBER: 260364
AGENCY NUMBER:

DATE COLLECTED: 03/24/98
TIME COLLECTED: 15:50
DATE RECEIVED: 03/25/98
DATE COMPLETED: / /

PWS ID:
STATION:

COLLECTED BY: KK
DATE REPORTED: 04/08/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY METAL LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PARAMETER NAME	CONCENTRATION IN SAMPLE				PAGE
	CODE	<	VALUE	UNITS	METHOD
ARSENIC IN SEDIMENT	01003	<	24.000	MG/KG	6010
BARIUM IN SEDIMENT	01008		40.000	MG/KG	6010
BERYLLIUM IN SEDIMNT	01013	<	4.000	MG/KG	6010
CADMUM IN SEDIMENT	01028	<	2.000	MG/KG	6010
CHROMIUM IN SEDIMENT	01029		23.000	MG/KG	6010
COPPER IN SEDIMENT	01039		16.000	MG/KG	6010
LEAD IN SEDIMENT	01052		69.000	MG/KG	6010
NICKEL IN SEDIMENT	01068		11.000	MG/KG	6010
SILVER IN SEDIMENT	01078	<	4.000	MG/KG	6010
ZINC IN SEDIMENT	01093		39.000	MG/KG	6010
ANTIMONY IN SED	01098	<	140.000	MG/KG	6010
SELENIUM IN SEDIMENT	01148	<	28.000	MG/KG	6010
THALLIUM IN SEDIMENT	34480	<	80.000	MG/KG	6010
MERCURY IN SEDIMENT	71921		0.400	MG/KG	7471

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: GCMS

SAMPLER'S COMMENTS: OH-WS-4

ANALYST'S COMMENTS:

ANALYST


Cliff Petree
Oklahoma Department of Environmental Quality
Metal Laboratory

SAMPLE NUMBER: 260339
DATE COLLECTED: 03/25/98
TIME COLLECTED: 10:45
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KF

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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SURROGATE RECOVERIES		PAGE 1
COMPOUND	RECOVERY %	
1, 2-DICHLOROETHANE	78	
2, 4, 6-TRIBROMOPHENOL	92	
2-FLUOROBIPHENYL	88	
2-FLUOROPHENOL	70	
4-BROMOFLUOROBENZENE	93	
NITROBENZENE-D5	62	
P-TERPHENYL-D14	84	
PHENOL-D5	40	
TOLUENE-D8	93	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-1

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260339
DATE COLLECTED: 03/25/98
TIME COLLECTED: 10:45
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KF

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-1

ANALYST'S COMMENTS:

ANALYST

Beth Butler

SAMPLE NUMBER: 260339

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 10:45

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

DATE REPORTED: 05/29/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

RECEIVED

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

JUN 02 1998

CC: FILE COPY

Waste Management Division

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34200	U <	10.000	UG/L	8270	
ACENAPHTHENE	34205	U <	10.000	UG/L	8270	
ANTHRACENE	34220	U <	10.000	UG/L	8270	
BENZO (B) FLUORANTHENE	34230	U <	10.000	UG/L	8270	
BENZO (K) FLUORANTHENE	34242	U <	10.000	UG/L	8270	
BENZO (A) PYRENE	34247	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHYL) ETHER	34268	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHOXY) METHANE	34278	U <	10.000	UG/L	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34283	U <	10.000	UG/L	8270	
BUTYLBENZYLPHthalate	34292	U <	10.000	UG/L	8270	
CHRYSENE	34320	U <	10.000	UG/L	8270	
DIETHYLPHthalate	34336	U <	10.000	UG/L	8270	
DIMETHYLPHthalate	34341	U <	10.000	UG/L	8270	
FLUORANTHENE	34376	U <	10.000	UG/L	8270	
FLUORENE	34381	U <	10.000	UG/L	8270	
HEXACHLOROCYCLOPENTADIENE	34386	U <	10.000	UG/L	8270	
HEXACHLOROETHANE	34396	U <	10.000	UG/L	8270	
INDENO (123CD) PYRENE	34403	U <	10.000	UG/L	8270	
ISOPHORONE	34408	U <	10.000	UG/L	8270	
NITROSODIPROPYLAMINE	34428	U <	10.000	UG/L	8270	
NITROSODIPHENYLAMINE	34433	U <	10.000	UG/L	8270	
NITROBENZENE	34447	U <	10.000	UG/L	8270	
P-CHLORO-M-CRESOL	34452	U <	10.000	UG/L	8270	
PHENANTHRENE	34461	U <	10.000	UG/L	8270	
PYRENE	34469	U <	10.000	UG/L	8270	
BENZO (GHI) PERYLENE	34521	U <	10.000	UG/L	8270	
BENZO (A) ANTHRACENE	34526	U <	10.000	UG/L	8270	
1,2-DICHLOROBENZENE	34536	U <	10.000	UG/L	8270	
1,2,4-TRICHLOROBENZENE	34551	U <	10.000	UG/L	8270	
DIBENZO (AH) ANTHRACENE	34556	U <	10.000	UG/L	8270	
1,3-DICHLOROBENZENE	34566	U <	10.000	UG/L	8270	

CM:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value.

B - Indicates the analyte is found in the associated blank as well as in the sample.

R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 4-DICHLOROBENZENE	34571	U <	10.000	UG/L	8270
2-CHLORONAPHTHALENE	34581	U <	10.000	UG/L	8270
2-CHLOROPHENOL	34586	U <	10.000	UG/L	8270
2-NITROPHENOL	34591	U <	10.000	UG/L	8270
DI-N-OCTYLPHthalate	34596	U <	10.000	UG/L	8270
2, 4-DICHLOROPHENOL	34601	U <	10.000	UG/L	8270
2, 4-DIMETHYLPHENOL	34606	U <	10.000	UG/L	8270
2, 4-DINITROTOLUENE	34611	U <	10.000	UG/L	8270
2, 4-DINITROPHENOL	34616	U <	50.000	UG/L	8270
2, 4, 6-TRICHLOROPHENOL	34621	U <	10.000	UG/L	8270
2, 6-DINITROTOLUENE	34626	U <	10.000	UG/L	8270
3, 3'-DICHLOROBENZIDINE	34631	U <	20.000	UG/L	8270
4-BROMOPHENYLPHENYL ETHER	34636	U <	10.000	UG/L	8270
4-CHLOROPHENYLPHENYL ETHER	34641	U <	10.000	UG/L	8270
4-NITROPHENOL	34646	U <	50.000	UG/L	8270
4, 6-DINITRO-O-CRESOL	34657	U <	50.000	UG/L	8270
PHENOL	34694	U <	10.000	UG/L	8270
NAPHTHALENE (GRO)	34696	U <	10.000	UG/L	8270
PENTACHLOROPHENOL	39032	U <	50.000	UG/L	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39100	U <	10.000	UG/L	8270
DI-N-BUTYLPHthalate	39110	U <	10.000	UG/L	8270
HEXACHLOROBENZENE	39700	U <	10.000	UG/L	8270
HEXACHLOROBUTADIENE	39702	U <	10.000	UG/L	8270
DIBENZOFURAN	75647	U <	10.000	UG/L	8270
BENZYL ALCOHOL	77147	U <	10.000	UG/L	8270
BENZOIC ACID	77247	U <	50.000	UG/L	8270
2-METHYLNAPHTHALENE	77416	U <	10.000	UG/L	8270
2-METHYL PHENOL	77923	U <	10.000	UG/L	8270
4-METHYL PHENOL	77925	U <	10.000	UG/L	8270
2, 4, 5-TRICHLOROPHENOL	77927	U <	50.000	UG/L	8270
4-CHLOROANALINE	77929	U <	10.000	UG/L	8270
2-NITROANALINE	77931	U <	50.000	UG/L	8270
3-NITROANALINE	77933	U <	50.000	UG/L	8270
4-NITROANALINE	77935	U <	50.000	UG/L	8270

CM:

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
DICHLOROBROMOMETHANE	32101	U <	5.000	UG/L	8240
CARBON TETRACHLORIDE	32102	U <	5.000	UG/L	8240
BROMOFORM	32104	U <	5.000	UG/L	8240
CHLOROFORM	32106	U <	5.000	UG/L	8240
TOLUENE	34010	U <	5.000	UG/L	8240
BENZENE	34030	U <	5.000	UG/L	8240
CHLOROBENZENE	34301	U <	5.000	UG/L	8240
CHLORODIBROMOMETHANE	34306	U <	5.000	UG/L	8240
CHLOROETHANE	34311	U <	10.000	UG/L	8240
ETHYLBENZENE	34371	U <	5.000	UG/L	8240
METHYL BROMIDE	34413	U <	10.000	UG/L	8240
METHYL CHLORIDE	34418	U <	10.000	UG/L	8240
METHYLENE CHLORIDE	34423	U <	5.000	UG/L	8240
TETRACHLOROETHENE	34475	U <	5.000	UG/L	8240
1,1-DICHLOROETHANE	34496	U <	5.000	UG/L	8240
1,1-DICHLOROETHENE	34501	U <	5.000	UG/L	8240
1,1,1-TRICHLOROETHANE	34506	U <	5.000	UG/L	8240
1,1,2-TRICHLOROETHANE	34511	U <	5.000	UG/L	8240
1,1,2,2-TETRACHLOROETHANE	34516	U <	5.000	UG/L	8240
1,2-DICHLOROETHANE	34531	U <	5.000	UG/L	8240
1,2-DICHLOROPROPANE	34541	U <	5.000	UG/L	8240
TRANS-1,2-DICHLOROETHENE	34546	U <	5.000	UG/L	8240
2-CHLOROETHYLVINYL ETHER	34576	U <	10.000	UG/L	8240
TRANS-1,3-DICHLOROPROPENE	34699	U <	5.000	UG/L	8240
CIS-1,3-DICHLOROPROPENE	34704	U <	5.000	UG/L	8240
VINYL CHLORIDE	39175	U <	10.000	UG/L	8240
TRICHLOROETHENE	39180	U <	5.000	UG/L	8240
METHYLISOBUTYL KETONE	76148	U <	10.000	UG/L	8240
CARBON DISULFIDE	77041	U <	5.000	UG/L	8240
VINYL ACETATE	77057	U <	10.000	UG/L	8240
2-HEXANONE	77103	U <	10.000	UG/L	8240
STYRENE	77128	U <	5.000	UG/L	8240
XYLENES	81551	U <	5.000	UG/L	8240
ACETONE	81552	U <	10.000	UG/L	8240
METHYLETHYL KETONE	81595	U <	10.000	UG/L	8240

CM:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value.

B - Indicates the analyte is found in the associated blank as well as in the sample.

R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-1

ANALYST'S COMMENTS:

ANALYST

Bill Ballou

SAMPLE NUMBER: 260340
DATE COLLECTED: 03/25/98
TIME COLLECTED: 09:30
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KF

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

SURROGATE RECOVERIES		PAGE	1
COMPOUND	RECOVERY %		
1, 2-DICHLOROETHANE	76		
2, 4, 6-TRIBROMOPHENOL	90		
2-FLUOROBIPHENYL	80		
2-FLUOROPHENOL	60		
4-BROMOFLUOROBENZENE	93		
NITROBENZENE-D5	53		
P-TERPHENYL-D14	82		
PHENOL-D5	32		
TOLUENE-D8	92		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-2

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260340
DATE COLLECTED: 03/25/98
TIME COLLECTED: 09:30
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KF

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH

PAGE 1

COMPOUND	VALUE	UNIT
NONE FOUND	0	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-2

ANALYST'S COMMENTS:

ANALYST

Bill Battier

SAMPLE NUMBER: 260340

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 09:30

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

DATE REPORTED: 05/29/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34200	U <	10.000	UG/L	8270	
ACENAPHTHENE	34205	U <	10.000	UG/L	8270	
ANTHRACENE	34220	U <	10.000	UG/L	8270	
BENZO (B) FLUORANTHENE	34230	U <	10.000	UG/L	8270	
BENZO (K) FLUORANTHENE	34242	U <	10.000	UG/L	8270	
BENZO (A) PYRENE	34247	U <	10.000	UG/L	8270	
BIS(2-CHLOROETHYL) ETHER	34268	U <	10.000	UG/L	8270	
BIS(2-CHLOROETHOXY) METHANE	34278	U <	10.000	UG/L	8270	
BIS(2-CHLOROISOPROPYL) ETHER	34283	U <	10.000	UG/L	8270	
BUTYLBENZYLPHthalate	34292	U <	10.000	UG/L	8270	
CHRYSENE	34320	U <	10.000	UG/L	8270	
DIETHYLPHTHALATE	34336	U <	10.000	UG/L	8270	
DIMETHYLPHTHALATE	34341	U <	10.000	UG/L	8270	
FLUORANTHENE	34376	U <	10.000	UG/L	8270	
FLUORENE	34381	U <	10.000	UG/L	8270	
HEXACHLOROCYCLOPENTADIENE	34386	U <	10.000	UG/L	8270	
HEXACHLOROETHANE	34396	U <	10.000	UG/L	8270	
INDENO(123CD) PYRENE	34403	U <	10.000	UG/L	8270	
ISOPHORONE	34408	U <	10.000	UG/L	8270	
NITROSODIPROPYLAMINE	34428	U <	10.000	UG/L	8270	
NITROSODIPHENYLAMINE	34433	U <	10.000	UG/L	8270	
NITROBENZENE	34447	U <	10.000	UG/L	8270	
P-CHLORO-M-CRESOL	34452	U <	10.000	UG/L	8270	
PHENANTHRENE	34461	U <	10.000	UG/L	8270	
PYRENE	34469	U <	10.000	UG/L	8270	
BENZO(GHI) PERYLENE	34521	U <	10.000	UG/L	8270	
BENZO(A) ANTHRACENE	34526	U <	10.000	UG/L	8270	
1,2-DICHLOROBENZENE	34536	U <	10.000	UG/L	8270	
1,2,4-TRICHLOROBENZENE	34551	U <	10.000	UG/L	8270	
DIBENZO(AH) ANTHRACENE	34556	U <	10.000	UG/L	8270	
1,3-DICHLOROBENZENE	34566	U <	10.000	UG/L	8270	

CM:

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J - Indicates an estimated value.

B - Indicates the analyte is found in the associated blank as well as in the sample.

R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 4-DICHLOROBENZENE	34571	U <	10.000	UG/L	8270
2-CHLORONAPHTHALENE	34581	U <	10.000	UG/L	8270
2-CHLOROPHENOL	34586	U <	10.000	UG/L	8270
2-NITROPHENOL	34591	U <	10.000	UG/L	8270
DI-N-OCTYLPHthalATE	34596	U <	10.000	UG/L	8270
2, 4-DICHLOROPHENOL	34601	U <	10.000	UG/L	8270
2, 4-DIMETHYLPHENOL	34606	U <	10.000	UG/L	8270
2, 4-DINITROTOLUENE	34611	U <	10.000	UG/L	8270
2, 4-DINITROPHENOL	34616	U <	50.000	UG/L	8270
2, 4, 6-TRICHLOROPHENOL	34621	U <	10.000	UG/L	8270
2, 6-DINITROTOLUENE	34626	U <	10.000	UG/L	8270
3, 3'-DICHLOROBENZIDINE	34631	U <	20.000	UG/L	8270
4-BROMOPHENYLPHENYL ETHER	34636	U <	10.000	UG/L	8270
4-CHLOROPHENYLPHENYL ETHER	34641	U <	10.000	UG/L	8270
4-NITROPHENOL	34646	U <	50.000	UG/L	8270
4, 6-DINITRO-O-CRESOL	34657	U <	50.000	UG/L	8270
PHENOL	34694	U <	10.000	UG/L	8270
NAPHTHALENE (GRO)	34696	U <	10.000	UG/L	8270
PENTACHLOROPHENOL	39032	U <	50.000	UG/L	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39100	U <	10.000	UG/L	8270
DI-N-BUTYLPHthalATE	39110	U <	10.000	UG/L	8270
HEXACHLOROBENZENE	39700	U <	10.000	UG/L	8270
HEXACHLOROBUTADIENE	39702	U <	10.000	UG/L	8270
DIBENZOFURAN	75647	U <	10.000	UG/L	8270
BENZYL ALCOHOL	77147	U <	10.000	UG/L	8270
BENZOIC ACID	77247	U <	50.000	UG/L	8270
2-METHYLNAPHTHALENE	77416	U <	10.000	UG/L	8270
2-METHYL PHENOL	77923	U <	10.000	UG/L	8270
4-METHYL PHENOL	77925	U <	10.000	UG/L	8270
2, 4, 5-TRICHLOROPHENOL	77927	U <	50.000	UG/L	8270
4-CHLOROANALINE	77929	U <	10.000	UG/L	8270
2-NITROANALINE	77931	U <	50.000	UG/L	8270
3-NITROANALINE	77933	U <	50.000	UG/L	8270
4-NITROANALINE	77935	U <	50.000	UG/L	8270

CM:

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
DICHLOROBROMOMETHANE	32101	U <	5.000	UG/L	8240
CARBON TETRACHLORIDE	32102	U <	5.000	UG/L	8240
BROMOFORM	32104	U <	5.000	UG/L	8240
CHLOROFORM	32106	U <	5.000	UG/L	8240
TOLUENE	34010	U <	5.000	UG/L	8240
BENZENE	34030	U <	5.000	UG/L	8240
CHLOROBENZENE	34301	U <	5.000	UG/L	8240
CHLORODIBROMOMETHANE	34306	U <	5.000	UG/L	8240
CHLOROETHANE	34311	U <	10.000	UG/L	8240
ETHYLBENZENE	34371	U <	5.000	UG/L	8240
METHYL BROMIDE	34413	U <	10.000	UG/L	8240
METHYL CHLORIDE	34418	U <	10.000	UG/L	8240
METHYLENE CHLORIDE	34423	U <	5.000	UG/L	8240
TETRACHLOROETHENE	34475	U <	5.000	UG/L	8240
1,1-DICHLOROETHANE	34496	U <	5.000	UG/L	8240
1,1-DICHLOROETHENE	34501	U <	5.000	UG/L	8240
1,1,1-TRICHLOROETHANE	34506	U <	5.000	UG/L	8240
1,1,2-TRICHLOROETHANE	34511	U <	5.000	UG/L	8240
1,1,2,2-TETRACHLOROETHANE	34516	U <	5.000	UG/L	8240
1,2-DICHLOROETHANE	34531	U <	5.000	UG/L	8240
1,2-DICHLOROPROPANE	34541	U <	5.000	UG/L	8240
TRANS-1,2-DICHLOROETHENE	34546	U <	5.000	UG/L	8240
2-CHLOROETHYLVINYL ETHER	34576	U <	10.000	UG/L	8240
TRANS-1,3-DICHLOROPROPENE	34699	U <	5.000	UG/L	8240
CIS-1,3-DICHLOROPROPENE	34704	U <	5.000	UG/L	8240
VINYL CHLORIDE	39175	U <	10.000	UG/L	8240
TRICHLOROETHENE	39180	U <	5.000	UG/L	8240
METHYLISOBUTYL KETONE	76148	U <	10.000	UG/L	8240
CARBON DISULFIDE	77041	U <	5.000	UG/L	8240
VINYL ACETATE	77057	U <	10.000	UG/L	8240
2-HEXANONE	77103	U <	10.000	UG/L	8240
STYRENE	77128	U <	5.000	UG/L	8240
XYLENES	81551	U <	5.000	UG/L	8240
ACETONE	81552	U <	10.000	UG/L	8240
METHYLETHYL KETONE	81595	U <	10.000	UG/L	8240

CM:

U - Indicates compound was analyzed for but not detected.

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME

CODE CM <

VALUE UNITS

METHOD

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-2

ANALYST'S COMMENTS:

ANALYST

Bill Bottler

SAMPLE NUMBER: 260341
DATE COLLECTED: 03/25/98
TIME COLLECTED: 16:20
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KF

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

SURROGATE RECOVERIES	
COMPOUND	RECOVERY %
1, 2-DICHLOROETHANE	78
2, 4, 6-TRIBROMOPHENOL	89
2-FLUOROBIPHENYL	90
2-FLUOROPHENOL	72
4-BROMOFLUOROBENZENE	93
NITROBENZENE-D5	62
P-TERPHENYL-D14	85
PHENOL-D5	38
TOLUENE-D8	91

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-3

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260341
DATE COLLECTED: 03/25/98
TIME COLLECTED: 16:20
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
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HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		
COMPOUND	VALUE	UNIT
NONE FOUND	0	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-3

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260341
 AGENCY NUMBER:
 DATE COLLECTED: 03/25/98
 TIME COLLECTED: 16:20
 DATE RECEIVED: 03/25/98
 DATE COMPLETED: / /
 PWS ID:
 STATION:
 COLLECTED BY: KF
 DATE REPORTED: 05/29/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
 REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
 KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34200	U <	10.000	UG/L	8270	
ACENAPHTHENE	34205	U <	10.000	UG/L	8270	
ANTHRACENE	34220	U <	10.000	UG/L	8270	
BENZO (B) FLUORANTHENE	34230	U <	10.000	UG/L	8270	
BENZO (K) FLUORANTHENE	34242	U <	10.000	UG/L	8270	
BENZO (A) PYRENE	34247	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHYL) ETHER	34268	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHOXY) METHANE	34278	U <	10.000	UG/L	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34283	U <	10.000	UG/L	8270	
BUTYLBENZYLPHthalATE	34292	U <	10.000	UG/L	8270	
CHRYSENE	34320	U <	10.000	UG/L	8270	
DIETHYLPHthalATE	34336	U <	10.000	UG/L	8270	
DIMETHYLPHthalATE	34341	U <	10.000	UG/L	8270	
FLUORANTHENE	34376	U <	10.000	UG/L	8270	
FLUORENE	34381	U <	10.000	UG/L	8270	
HEXACHLOROCYCLOPENTADIENE	34386	U <	10.000	UG/L	8270	
HEXACHLOROETHANE	34396	U <	10.000	UG/L	8270	
INDENO (123CD) PYRENE	34403	U <	10.000	UG/L	8270	
ISOPHORONE	34408	U <	10.000	UG/L	8270	
NITROSODIPROPYLAMINE	34428	U <	10.000	UG/L	8270	
NITROSODIPHENYLAMINE	34433	U <	10.000	UG/L	8270	
NITROBENZENE	34447	U <	10.000	UG/L	8270	
P-CHLORO-M-CRESOL	34452	U <	10.000	UG/L	8270	
PHENANTHRENE	34461	U <	10.000	UG/L	8270	
PYRENE	34469	U <	10.000	UG/L	8270	
BENZO (GHI) PERYLENE	34521	U <	10.000	UG/L	8270	
BENZO (A) ANTHRACENE	34526	U <	10.000	UG/L	8270	
1, 2-DICHLOROBENZENE	34536	U <	10.000	UG/L	8270	
1, 2, 4-TRICHLOROBENZENE	34551	U <	10.000	UG/L	8270	
DIBENZO (AH) ANTHRACENE	34556	U <	10.000	UG/L	8270	
1, 3-DICHLOROBENZENE	34566	U <	10.000	UG/L	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 4-DICHLOROBENZENE	34571	U <	10.000	UG/L	8270
2-CHLORONAPHTHALENE	34581	U <	10.000	UG/L	8270
2-CHLOROPHENOL	34586	U <	10.000	UG/L	8270
2-NITROPHENOL	34591	U <	10.000	UG/L	8270
DI-N-OCTYLPHthalate	34596	U <	10.000	UG/L	8270
2, 4-DICHLOROPHENOL	34601	U <	10.000	UG/L	8270
2, 4-DIMETHYLPHENOL	34606	U <	10.000	UG/L	8270
2, 4-DINITROTOLUENE	34611	U <	10.000	UG/L	8270
2, 4-DINITROPHENOL	34616	U <	50.000	UG/L	8270
2, 4, 6-TRICHLOROPHENOL	34621	U <	10.000	UG/L	8270
2, 6-DINITROTOLUENE	34626	U <	10.000	UG/L	8270
3, 3'-DICHLOROBENZIDINE	34631	U <	20.000	UG/L	8270
4-BROMOPHENYLPHENYL ETHER	34636	U <	10.000	UG/L	8270
4-CHLOROPHENYLPHENYL ETHER	34641	U <	10.000	UG/L	8270
4-NITROPHENOL	34646	U <	50.000	UG/L	8270
4, 6-DINITRO-O-CRESOL	34657	U <	50.000	UG/L	8270
PHENOL	34694	U <	10.000	UG/L	8270
NAPHTHALENE (GRO)	34696	U <	10.000	UG/L	8270
PENTACHLOROPHENOL	39032	U <	50.000	UG/L	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39100	U <	10.000	UG/L	8270
DI-N-BUTYLPHthalate	39110	U <	10.000	UG/L	8270
HEXACHLOROBENZENE	39700	U <	10.000	UG/L	8270
HEXACHLOROBUTADIENE	39702	U <	10.000	UG/L	8270
DIBENZOFURAN	75647	U <	10.000	UG/L	8270
BENZYL ALCOHOL	77147	U <	10.000	UG/L	8270
BENZOIC ACID	77247	U <	50.000	UG/L	8270
2-METHYLNAPHTHALENE	77416	U <	10.000	UG/L	8270
2-METHYL PHENOL	77923	U <	10.000	UG/L	8270
4-METHYL PHENOL	77925	U <	10.000	UG/L	8270
2, 4, 5-TRICHLOROPHENOL	77927	U <	50.000	UG/L	8270
4-CHLOROANALINE	77929	U <	10.000	UG/L	8270
2-NITROANALINE	77931	U <	50.000	UG/L	8270
3-NITROANALINE	77933	U <	50.000	UG/L	8270
4-NITROANALINE	77935	U <	50.000	UG/L	8270

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
DICHLOROBROMOMETHANE	32101	U <	5.000	UG/L	8240
CARBON TETRACHLORIDE	32102	U <	5.000	UG/L	8240
BROMOFORM	32104	U <	5.000	UG/L	8240
CHLOROFORM	32106	U <	5.000	UG/L	8240
TOLUENE	34010	U <	5.000	UG/L	8240
BENZENE	34030	U <	5.000	UG/L	8240
CHLOROBENZENE	34301	U <	5.000	UG/L	8240
CHLORODIBROMOMETHANE	34306	U <	5.000	UG/L	8240
CHLOROETHANE	34311	U <	10.000	UG/L	8240
ETHYLBENZENE	34371	U <	5.000	UG/L	8240
METHYL BROMIDE	34413	U <	10.000	UG/L	8240
METHYL CHLORIDE	34418	U <	10.000	UG/L	8240
METHYLENE CHLORIDE	34423	U <	5.000	UG/L	8240
TETRACHLOROETHENE	34475	U <	5.000	UG/L	8240
1,1-DICHLOROETHANE	34496	U <	5.000	UG/L	8240
1,1-DICHLOROETHENE	34501	U <	5.000	UG/L	8240
1,1,1-TRICHLOROETHANE	34506	U <	5.000	UG/L	8240
1,1,2-TRICHLOROETHANE	34511	U <	5.000	UG/L	8240
1,1,2,2-TETRACHLOROETHANE	34516	U <	5.000	UG/L	8240
1,2-DICHLOROETHANE	34531	U <	5.000	UG/L	8240
1,2-DICHLOROPROPANE	34541	U <	5.000	UG/L	8240
TRANS-1,2-DICHLOROETHENE	34546	U <	5.000	UG/L	8240
2-CHLOROETHYLVINYL ETHER	34576	U <	10.000	UG/L	8240
TRANS-1,3-DICHLOROPROPENE	34699	U <	5.000	UG/L	8240
CIS-1,3-DICHLOROPROPENE	34704	U <	5.000	UG/L	8240
VINYL CHLORIDE	39175	U <	10.000	UG/L	8240
TRICHLOROETHENE	39180	U <	5.000	UG/L	8240
METHYLIOSITYL KETONE	76148	U <	10.000	UG/L	8240
CARBON DISULFIDE	77041	U <	5.000	UG/L	8240
VINYL ACETATE	77057	U <	10.000	UG/L	8240
2-HEXANONE	77103	U <	10.000	UG/L	8240
STYRENE	77128	U <	5.000	UG/L	8240
XYLENES	81551	U <	5.000	UG/L	8240
ACETONE	81552	U <	10.000	UG/L	8240
METHYLETHYL KETONE	81595	U <	10.000	UG/L	8240

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-3

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260342
DATE COLLECTED: 03/25/98
TIME COLLECTED: 13:30
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KF

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

SURROGATE RECOVERIES	
COMPOUND	RECOVERY %
1, 2-DICHLOROETHANE	79
2, 4, 6-TRIBROMOPHENOL	89
2-FLUOROBIPHENYL	91
2-FLUOROPHENOL	78
4-BROMOFLUOROBENZENE	92
NITROBENZENE-D5	62
P-TERPHENYL-D14	87
PHENOL-D5	42
TOLUENE-D8	92

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-4

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260342
DATE COLLECTED: 03/25/98
TIME COLLECTED: 13:30
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KF

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-4

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260342

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 13:30

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS	METHOD	
ACENAPHTHYLENE	34200	U <	10.000	UG/L	8270	
ACENAPHTHENE	34205	U <	10.000	UG/L	8270	
ANTHRACENE	34220	U <	10.000	UG/L	8270	
BENZO (B) FLUORANTHENE	34230	U <	10.000	UG/L	8270	
BENZO (K) FLUORANTHENE	34242	U <	10.000	UG/L	8270	
BENZO (A) PYRENE	34247	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHYL) ETHER	34268	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHOXY) METHANE	34278	U <	10.000	UG/L	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34283	U <	10.000	UG/L	8270	
BUTYLBENZYLPHthalATE	34292	U <	10.000	UG/L	8270	
CHRYSENE	34320	U <	10.000	UG/L	8270	
DIETHYLPHTHALATE	34336	U <	10.000	UG/L	8270	
DIMETHYLPHTHALATE	34341	U <	10.000	UG/L	8270	
FLUORANTHENE	34376	U <	10.000	UG/L	8270	
FLUORENE	34381	U <	10.000	UG/L	8270	
HEXACHLOROCYCLOPENTADIENE	34386	U <	10.000	UG/L	8270	
HEXACHLOROETHANE	34396	U <	10.000	UG/L	8270	
INDENO(123CD) PYRENE	34403	U <	10.000	UG/L	8270	
ISOPHORONE	34408	U <	10.000	UG/L	8270	
NITROSODIPROPYLAMINE	34428	U <	10.000	UG/L	8270	
NITROSODIPHENYLAMINE	34433	U <	10.000	UG/L	8270	
NITROBENZENE	34447	U <	10.000	UG/L	8270	
P-CHLORO-M-CRESOL	34452	U <	10.000	UG/L	8270	
PHENANTHRENE	34461	U <	10.000	UG/L	8270	
PYRENE	34469	U <	10.000	UG/L	8270	
BENZO (GHI) PERYLENE	34521	U <	10.000	UG/L	8270	
BENZO (A) ANTHRACENE	34526	U <	10.000	UG/L	8270	
1, 2-DICHLOROBENZENE	34536	U <	10.000	UG/L	8270	
1, 2, 4-TRICHLOROBENZENE	34551	U <	10.000	UG/L	8270	
DIBENZO (AH) ANTHRACENE	34556	U <	10.000	UG/L	8270	
1, 3-DICHLOROBENZENE	34566	U <	10.000	UG/L	8270	

CM:

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J - Indicates an estimated value.

B - Indicates the analyte is found in the associated blank as well as in the sample.

R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 4-DICHLOROBENZENE	34571	U <	10.000	UG/L	8270
2-CHLORONAPHTHALENE	34581	U <	10.000	UG/L	8270
2-CHLOROPHENOL	34586	U <	10.000	UG/L	8270
2-NITROPHENOL	34591	U <	10.000	UG/L	8270
DI-N-OCTYLPHthalATE	34596	U <	10.000	UG/L	8270
2, 4-DICHLOROPHENOL	34601	U <	10.000	UG/L	8270
2, 4-DIMETHYLPHENOL	34606	U <	10.000	UG/L	8270
2, 4-DINITROTOLUENE	34611	U <	10.000	UG/L	8270
2, 4-DINITROPHENOL	34616	U <	50.000	UG/L	8270
2, 4, 6-TRICHLOROPHENOL	34621	U <	10.000	UG/L	8270
2, 6-DINITROTOLUENE	34626	U <	10.000	UG/L	8270
3, 3'-DICHLOROBENZIDINE	34631	U <	20.000	UG/L	8270
4-BROMOPHENYLPHENYL ETHER	34636	U <	10.000	UG/L	8270
4-CHLOROPHENYLPHENYL ETHER	34641	U <	10.000	UG/L	8270
4-NITROPHENOL	34646	U <	50.000	UG/L	8270
4, 6-DINITRO-O-CRESOL	34657	U <	50.000	UG/L	8270
PHENOL	34694	U <	10.000	UG/L	8270
NAPHTHALENE (GRO)	34696	U <	10.000	UG/L	8270
PENTACHLOROPHENOL	39032	U <	50.000	UG/L	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39100	U <	10.000	UG/L	8270
DI-N-BUTYLPHthalATE	39110	U <	10.000	UG/L	8270
HEXACHLOROBENZENE	39700	U <	10.000	UG/L	8270
HEXACHLOROBUTADIENE	39702	U <	10.000	UG/L	8270
DIBENZOFURAN	75647	U <	10.000	UG/L	8270
BENZYL ALCOHOL	77147	U <	10.000	UG/L	8270
BENZOIC ACID	77247	U <	50.000	UG/L	8270
2-METHYLNAPHTHALENE	77416	U <	10.000	UG/L	8270
2-METHYL PHENOL	77923	U <	10.000	UG/L	8270
4-METHYL PHENOL	77925	U <	10.000	UG/L	8270
2, 4, 5-TRICHLOROPHENOL	77927	U <	50.000	UG/L	8270
4-CHLOROANALINE	77929	U <	10.000	UG/L	8270
2-NITROANALINE	77931	U <	50.000	UG/L	8270
3-NITROANALINE	77933	U <	50.000	UG/L	8270
4-NITROANALINE	77935	U <	50.000	UG/L	8270

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
DICHLOROBROMOMETHANE	32101	U <	5.000	UG/L	8240
CARBON TETRACHOLRIDE	32102	U <	5.000	UG/L	8240
BROMOFORM	32104	U <	5.000	UG/L	8240
CHLOROFORM	32106	U <	5.000	UG/L	8240
TOLUENE	34010	U <	5.000	UG/L	8240
BENZENE	34030	U <	5.000	UG/L	8240
CHLOROBENZENE	34301	U <	5.000	UG/L	8240
CHLORODIBROMOMETHANE	34306	U <	5.000	UG/L	8240
CHLOROETHANE	34311	U <	10.000	UG/L	8240
ETHYLBENZENE	34371	U <	5.000	UG/L	8240
METHYL BROMIDE	34413	U <	10.000	UG/L	8240
METHYL CHLORIDE	34418	U <	10.000	UG/L	8240
METHYLENE CHLORIDE	34423	U <	5.000	UG/L	8240
TETRACHLOROETHENE	34475	U <	5.000	UG/L	8240
1,1-DICHLOROETHANE	34496	U <	5.000	UG/L	8240
1,1-DICHLOROETHENE	34501	U <	5.000	UG/L	8240
1,1,1-TRICHLOROETHANE	34506	U <	5.000	UG/L	8240
1,1,2-TRICHLOROETHANE	34511	U <	5.000	UG/L	8240
1,1,2,2-TETRACHLOROETHANE	34516	U <	5.000	UG/L	8240
1,2-DICHLOROETHANE	34531	U <	5.000	UG/L	8240
1,2-DICHLOROPROPANE	34541	U <	5.000	UG/L	8240
TRANS-1,2-DICHLOROETHENE	34546	U <	5.000	UG/L	8240
2-CHLOROETHYLVINYL ETHER	34576	U <	10.000	UG/L	8240
TRANS-1,3-DICHLOROPROPENE	34699	U <	5.000	UG/L	8240
CIS-1,3-DICHLOROPROPENE	34704	U <	5.000	UG/L	8240
VINYL CHLORIDE	39175	U <	10.000	UG/L	8240
TRICHLOROETHENE	39180	U <	5.000	UG/L	8240
METHYLISOBUTYL KETONE	76148	U <	10.000	UG/L	8240
CARBON DISULFIDE	77041	U <	5.000	UG/L	8240
VINYL ACETATE	77057	U <	10.000	UG/L	8240
2-HEXANONE	77103	U <	10.000	UG/L	8240
STYRENE	77128	U <	5.000	UG/L	8240
XYLENES	81551	U <	5.000	UG/L	8240
ACETONE	81552	U <	10.000	UG/L	8240
METHYLETHYL KETONE	81595	U <	10.000	UG/L	8240

CM:

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME

CODE CM <

VALUE UNITS

METHOD

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-4

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260343
DATE COLLECTED: 03/25/98
TIME COLLECTED: 14:15
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KF

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

SURROGATE RECOVERIES	
COMPOUND	RECOVERY %
1, 2-DICHLOROETHANE	77
2, 4, 6-TRIBROMOPHENOL	82
2-FLUOROBIPHENYL	87
2-FLUOROPHENOL	61
4-BROMOFLUOROBENZENE	92
NITROBENZENE-D5	61
P-TERPHENYL-D14	80
PHENOL-D5	9
TOLUENE-D8	91

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-5

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260343
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HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

COMPOUND	VALUE	UNIT
NONE FOUND	0	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-5

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260343

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

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DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

DATE REPORTED: 05/29/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34200	U <	10.000	UG/L	8270	
ACENAPHTHENE	34205	U <	10.000	UG/L	8270	
ANTHRACENE	34220	U <	10.000	UG/L	8270	
BENZO (B) FLUORANTHENE	34230	U <	10.000	UG/L	8270	
BENZO (K) FLUORANTHENE	34242	U <	10.000	UG/L	8270	
BENZO (A) PYRENE	34247	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHYL) ETHER	34268	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHOXY) METHANE	34278	U <	10.000	UG/L	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34283	U <	10.000	UG/L	8270	
BUTYLBENZYLPHthalATE	34292	U <	10.000	UG/L	8270	
CHRYSENE	34320	U <	10.000	UG/L	8270	
DIETHYLPHthalATE	34336	U <	10.000	UG/L	8270	
DIMETHYLPHthalATE	34341	U <	10.000	UG/L	8270	
FLUORANTHENE	34376	U <	10.000	UG/L	8270	
FLUORENE	34381	U <	10.000	UG/L	8270	
HEXACHLOROCYCLOPENTADIENE	34386	U <	10.000	UG/L	8270	
HEXACHLOROETHANE	34396	U <	10.000	UG/L	8270	
INDENO (123CD) PYRENE	34403	U <	10.000	UG/L	8270	
ISOPHORONE	34408	U <	10.000	UG/L	8270	
NITROSODIPROPYLAMINE	34428	U <	10.000	UG/L	8270	
NITROSODIPHENYLAMINE	34433	U <	10.000	UG/L	8270	
NITROBENZENE	34447	U <	10.000	UG/L	8270	
P-CHLORO-M-CRESOL	34452	U <	10.000	UG/L	8270	
PHENANTHRENE	34461	U <	10.000	UG/L	8270	
PYRENE	34469	U <	10.000	UG/L	8270	
BENZO (GHI) PERYLENE	34521	U <	10.000	UG/L	8270	
BENZO (A) ANTHRACENE	34526	U <	10.000	UG/L	8270	
1, 2-DICHLOROBENZENE	34536	U <	10.000	UG/L	8270	
1, 2, 4-TRICHLOROBENZENE	34551	U <	10.000	UG/L	8270	
DIBENZO (AH) ANTHRACENE	34556	U <	10.000	UG/L	8270	
1, 3-DICHLOROBENZENE	34566	U <	10.000	UG/L	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 4-DICHLOROBENZENE	34571	U <	10.000	UG/L	8270
2-CHLORONAPHTHALENE	34581	U <	10.000	UG/L	8270
2-CHLOROPHENOL	34586	U <	10.000	UG/L	8270
2-NITROPHENOL	34591	U <	10.000	UG/L	8270
DI-N-OCTYLPHthalATE	34596	U <	10.000	UG/L	8270
2, 4-DICHLOROPHENOL	34601	U <	10.000	UG/L	8270
2, 4-DIMETHYLPHENOL	34606	U <	10.000	UG/L	8270
2, 4-DINITROTOLUENE	34611	U <	10.000	UG/L	8270
2, 4-DINITROPHENOL	34616	U <	50.000	UG/L	8270
2, 4, 6-TRICHLOROPHENOL	34621	U <	10.000	UG/L	8270
2, 6-DINITROTOLUENE	34626	U <	10.000	UG/L	8270
3, 3'-DICHLOROBENZIDINE	34631	U <	20.000	UG/L	8270
4-BROMOPHENYLPHENYL ETHER	34636	U <	10.000	UG/L	8270
4-CHLOROPHENYLPHENYL ETHER	34641	U <	10.000	UG/L	8270
4-NITROPHENOL	34646	U <	50.000	UG/L	8270
4, 6-DINITRO-O-CRESOL	34657	U <	50.000	UG/L	8270
PHENOL	34694	U <	10.000	UG/L	8270
NAPHTHALENE (GRO)	34696	U <	10.000	UG/L	8270
PENTACHLOROPHENOL	39032	U <	50.000	UG/L	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39100	U <	10.000	UG/L	8270
DI-N-BUTYLPHthalATE	39110	U <	10.000	UG/L	8270
HEXACHLOROBENZENE	39700	U <	10.000	UG/L	8270
HEXACHLOROBUTADIENE	39702	U <	10.000	UG/L	8270
DIBENZOFURAN	75647	U <	10.000	UG/L	8270
BENZYL ALCOHOL	77147	U <	10.000	UG/L	8270
BENZOIC ACID	77247	U <	50.000	UG/L	8270
2-METHYLNAPHTHALENE	77416	U <	10.000	UG/L	8270
2-METHYL PHENOL	77923	U <	10.000	UG/L	8270
4-METHYL PHENOL	77925	U <	10.000	UG/L	8270
2, 4, 5-TRICHLOROPHENOL	77927	U <	50.000	UG/L	8270
4-CHLOROANALINE	77929	U <	10.000	UG/L	8270
2-NITROANALINE	77931	U <	50.000	UG/L	8270
3-NITROANALINE	77933	U <	50.000	UG/L	8270
4-NITROANALINE	77935	U <	50.000	UG/L	8270

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
DICHLOROBROMOMETHANE	32101	J	2.000	UG/L	8240
CARBON TETRACHLORIDE	32102	U <	5.000	UG/L	8240
BROMOFORM	32104	J	2.800	UG/L	8240
CHLOROFORM	32106	U <	5.000	UG/L	8240
TOLUENE	34010	U <	5.000	UG/L	8240
BENZENE	34030	U <	5.000	UG/L	8240
CHLOROBENZENE	34301	U <	5.000	UG/L	8240
CHLORODIBROMOMETHANE	34306	J	4.000	UG/L	8240
CHLOROETHANE	34311	U <	10.000	UG/L	8240
ETHYLBENZENE	34371	U <	5.000	UG/L	8240
METHYL BROMIDE	34413	U <	10.000	UG/L	8240
METHYL CHLORIDE	34418	U <	10.000	UG/L	8240
METHYLENE CHLORIDE	34423	U <	5.000	UG/L	8240
TETRACHLOROETHENE	34475	U <	5.000	UG/L	8240
1,1-DICHLOROETHANE	34496	U <	5.000	UG/L	8240
1,1-DICHLOROETHENE	34501	U <	5.000	UG/L	8240
1,1,1-TRICHLOROETHANE	34506	U <	5.000	UG/L	8240
1,1,2-TRICHLOROETHANE	34511	U <	5.000	UG/L	8240
1,1,2,2-TETRACHLOROETHANE	34516	U <	5.000	UG/L	8240
1,2-DICHLOROETHANE	34531	U <	5.000	UG/L	8240
1,2-DICHLOROPROPANE	34541	U <	5.000	UG/L	8240
TRANS-1,2-DICHLOROETHENE	34546	U <	5.000	UG/L	8240
2-CHLOROETHYL VINYL ETHER	34576	U <	10.000	UG/L	8240
TRANS-1,3-DICHLOROPROPENE	34699	U <	5.000	UG/L	8240
CIS-1,3-DICHLOROPROPENE	34704	U <	5.000	UG/L	8240
VINYL CHLORIDE	39175	U <	10.000	UG/L	8240
TRICHLOROETHENE	39180	U <	5.000	UG/L	8240
METHYLISOBUTYL KETONE	76148	U <	10.000	UG/L	8240
CARBON DISULFIDE	77041	U <	5.000	UG/L	8240
VINYL ACETATE	77057	U <	10.000	UG/L	8240
2-HEXANONE	77103	U <	10.000	UG/L	8240
STYRENE	77128	U <	5.000	UG/L	8240
XYLENES	81551	U <	5.000	UG/L	8240
ACETONE	81552	U <	10.000	UG/L	8240
METHYLETHYL KETONE	81595	U <	10.000	UG/L	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-5

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260344
DATE COLLECTED: 03/25/98
TIME COLLECTED: 10:45
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KF

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

COMPOUND	SURROGATE RECOVERIES	PAGE 1
	RECOVERY %	
1, 2-DICHLOROETHANE	79	
2, 4, 6-TRIBROMOPHENOL	105	
2-FLUOROBIPHENYL	104	
2-FLUOROPHENOL	88	
4-BROMOFLUOROBENZENE	92	
NITROBENZENE-D5	72	
P-TERPHENYL-D14	102	
PHENOL-D5	46	
TOLUENE-D8	91	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-6

ANALYST'S COMMENTS:

ANALYST

Bill Batten

SAMPLE NUMBER: 260344
DATE COLLECTED: 03/25/98
TIME COLLECTED: 10:45
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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-6

ANALYST'S COMMENTS:

ANALYST

Bell Batter

SAMPLE NUMBER: 260344

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 10:45

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34200	U <	10.000	UG/L	8270	
ACENAPHTHENE	34205	U <	10.000	UG/L	8270	
ANTHRACENE	34220	U <	10.000	UG/L	8270	
BENZO (B) FLUORANTHENE	34230	U <	10.000	UG/L	8270	
BENZO (K) FLUORANTHENE	34242	U <	10.000	UG/L	8270	
BENZO (A) PYRENE	34247	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHYL) ETHER	34268	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHOXY) METHANE	34278	U <	10.000	UG/L	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34283	U <	10.000	UG/L	8270	
BUTYLBENZYLPHthalATE	34292	U <	10.000	UG/L	8270	
CHRYSENE	34320	U <	10.000	UG/L	8270	
DIETHYLPHthalATE	34336	U <	10.000	UG/L	8270	
DIMETHYLPHthalATE	34341	U <	10.000	UG/L	8270	
FLUORANTHENE	34376	U <	10.000	UG/L	8270	
FLUORENE	34381	U <	10.000	UG/L	8270	
HEXACHLOROCYCLOPENTADIENE	34386	U <	10.000	UG/L	8270	
HEXACHLOROETHANE	34396	U <	10.000	UG/L	8270	
INDENO (123CD) PYRENE	34403	U <	10.000	UG/L	8270	
ISOPHORONE	34408	U <	10.000	UG/L	8270	
NITROSODIPROPYLAMINE	34428	U <	10.000	UG/L	8270	
NITROSODIPHENYLAMINE	34433	U <	10.000	UG/L	8270	
NITROBENZENE	34447	U <	10.000	UG/L	8270	
P-CHLORO-M-CRESOL	34452	U <	10.000	UG/L	8270	
PHENANTHRENE	34461	U <	10.000	UG/L	8270	
PYRENE	34469	U <	10.000	UG/L	8270	
BENZO (GHI) PERYLENE	34521	U <	10.000	UG/L	8270	
BENZO (A) ANTHRACENE	34526	U <	10.000	UG/L	8270	
1, 2-DICHLOROBENZENE	34536	U <	10.000	UG/L	8270	
1, 2, 4-TRICHLOROBENZENE	34551	U <	10.000	UG/L	8270	
DIBENZO (AH) ANTHRACENE	34556	U <	10.000	UG/L	8270	
1, 3-DICHLOROBENZENE	34566	U <	10.000	UG/L	8270	

CM:

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J - Indicates an estimated value.

B - Indicates the analyte is found in the associated blank as well as in the sample.

R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * EXTRACTABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
1, 4-DICHLOROBENZENE	34571	U <	10.000	UG/L	8270	
2-CHLORONAPHTHALENE	34581	U <	10.000	UG/L	8270	
2-CHLOROPHENOL	34586	U <	10.000	UG/L	8270	
2-NITROPHENOL	34591	U <	10.000	UG/L	8270	
DI-N-OCTYLPHthalATE	34596	U <	10.000	UG/L	8270	
2, 4-DICHLOROPHENOL	34601	U <	10.000	UG/L	8270	
2, 4-DIMETHYLPHENOL	34606	U <	10.000	UG/L	8270	
2, 4-DINITROTOLUENE	34611	U <	10.000	UG/L	8270	
2, 4-DINITROPHENOL	34616	U <	50.000	UG/L	8270	
2, 4, 6-TRICHLOROPHENOL	34621	U <	10.000	UG/L	8270	
2, 6-DINITROTOLUENE	34626	U <	10.000	UG/L	8270	
3, 3'-DICHLOROBENZIDINE	34631	U <	20.000	UG/L	8270	
4-BROMOPHENYLPHENYL ETHER	34636	U <	10.000	UG/L	8270	
4-CHLOROPHENYLPHENYL ETHER	34641	U <	10.000	UG/L	8270	
4-NITROPHENOL	34646	U <	50.000	UG/L	8270	
4, 6-DINITRO-O-CRESOL	34657	U <	50.000	UG/L	8270	
PHENOL	34694	U <	10.000	UG/L	8270	
NAPHTHALENE (GRO)	34696	U <	10.000	UG/L	8270	
PENTACHLOROPHENOL	39032	U <	50.000	UG/L	8270	
BIS(2-ETHYLHEXYL) PHthalATE	39100	U <	10.000	UG/L	8270	
DI-N-BUTYLPHthalATE	39110	U <	10.000	UG/L	8270	
HEXACHLOROBENZENE	39700	U <	10.000	UG/L	8270	
HEXACHLOROBUTADIENE	39702	U <	10.000	UG/L	8270	
DIBENZOFURAN	75647	U <	10.000	UG/L	8270	
BENZYL ALCOHOL	77147	U <	10.000	UG/L	8270	
BENZOIC ACID	77247	U <	50.000	UG/L	8270	
2-METHYLNAPHTHALENE	77416	U <	10.000	UG/L	8270	
2-METHYL PHENOL	77923	U <	10.000	UG/L	8270	
4-METHYL PHENOL	77925	U <	10.000	UG/L	8270	
2, 4, 5-TRICHLOROPHENOL	77927	U <	50.000	UG/L	8270	
4-CHLOROANALINE	77929	U <	10.000	UG/L	8270	
2-NITROANALINE	77931	U <	50.000	UG/L	8270	
3-NITROANALINE	77933	U <	50.000	UG/L	8270	
4-NITROANALINE	77935	U <	50.000	UG/L	8270	

CM:

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *					PAGE	3
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
DICHLOROBROMOMETHANE	32101	U <	5.000	UG/L	8240	
CARBON TETRACHOLRIDE	32102	U <	5.000	UG/L	8240	
BROMOFORM	32104	U <	5.000	UG/L	8240	
CHLOROFORM	32106	U <	5.000	UG/L	8240	
TOLUENE	34010	U <	5.000	UG/L	8240	
BENZENE	34030	U <	5.000	UG/L	8240	
CHLOROBENZENE	34301	U <	5.000	UG/L	8240	
CHLORODIBROMOMETHANE	34306	U <	5.000	UG/L	8240	
CHLOROETHANE	34311	U <	10.000	UG/L	8240	
ETHYLBENZENE	34371	U <	5.000	UG/L	8240	
METHYL BROMIDE	34413	U <	10.000	UG/L	8240	
METHYL CHLORIDE	34418	U <	10.000	UG/L	8240	
METHYLENE CHLORIDE	34423	U <	5.000	UG/L	8240	
TETRACHLOROETHENE	34475	U <	5.000	UG/L	8240	
1,1-DICHLOROETHANE	34496	U <	5.000	UG/L	8240	
1,1-DICHLOROETHENE	34501	U <	5.000	UG/L	8240	
1,1,1-TRICHLOROETHANE	34506	U <	5.000	UG/L	8240	
1,1,2-TRICHLOROETHANE	34511	U <	5.000	UG/L	8240	
1,1,2,2-TETRACHLOROETHANE	34516	U <	5.000	UG/L	8240	
1,2-DICHLOROETHANE	34531	U <	5.000	UG/L	8240	
1,2-DICHLOROPROPANE	34541	U <	5.000	UG/L	8240	
TRANS-1,2-DICHLOROETHENE	34546	U <	5.000	UG/L	8240	
2-CHLOROETHYLVINYL ETHER	34576	U <	10.000	UG/L	8240	
TRANS-1,3-DICHLOROPROPENE	34699	U <	5.000	UG/L	8240	
CIS-1,3-DICHLOROPROPENE	34704	U <	5.000	UG/L	8240	
VINYL CHLORIDE	39175	U <	10.000	UG/L	8240	
TRICHLOROETHENE	39180	U <	5.000	UG/L	8240	
METHYLISOBUTYL KETONE	76148	U <	10.000	UG/L	8240	
CARBON DISULFIDE	77041	U <	5.000	UG/L	8240	
VINYL ACETATE	77057	U <	10.000	UG/L	8240	
2-HEXANONE	77103	U <	10.000	UG/L	8240	
STYRENE	77128	U <	5.000	UG/L	8240	
XYLENES	81551	U <	5.000	UG/L	8240	
ACETONE	81552	J	1.000	UG/L	8240	
METHYLETHYL KETONE	81595	U <	10.000	UG/L	8240	

CM:

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-GW-6

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260345
DATE COLLECTED: 03/25/98
TIME COLLECTED: 14:40
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KF

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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COMPOUND	SURROGATE RECOVERIES	PAGE	1
	RECOVERY %		
1, 2-DICHLOROETHANE	79		
2, 4, 6-TRIBROMOPHENOL	96		
2-FLUOROBIPHENYL	110		
2-FLUOROPHENOL	68		
4-BROMOFLUOROBENZENE	92		
NITROBENZENE-D5	74		
P-TERPHENYL-D14	102		
PHENOL-D5	39		
TOLUENE-D8	90		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SW-1

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260345
DATE COLLECTED: 03/25/98
TIME COLLECTED: 14:40
DATE RECEIVED: 03/25/98
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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SW-1

ANALYST'S COMMENTS:

ANALYST

Bill Battay

SAMPLE NUMBER: 260345

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 14:40

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KF

DATE REPORTED: 05/29/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34200	U <	10.000	UG/L	8270	
ACENAPHTHENE	34205	U <	10.000	UG/L	8270	
ANTHRACENE	34220	U <	10.000	UG/L	8270	
BENZO (B) FLUORANTHENE	34230	U <	10.000	UG/L	8270	
BENZO (K) FLUORANTHENE	34242	U <	10.000	UG/L	8270	
BENZO (A) PYRENE	34247	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHYL) ETHER	34268	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHOXY) METHANE	34278	U <	10.000	UG/L	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34283	U <	10.000	UG/L	8270	
BUTYLBENZYLPHthalate	34292	U <	10.000	UG/L	8270	
CHRYSENE	34320	U <	10.000	UG/L	8270	
DIETHYLPHTHALATE	34336	U <	10.000	UG/L	8270	
DIMETHYLPHTHALATE	34341	U <	10.000	UG/L	8270	
FLUORANTHENE	34376	U <	10.000	UG/L	8270	
FLUORENE	34381	U <	10.000	UG/L	8270	
HEXACHLOROCYCLOPENTADIENE	34386	U <	10.000	UG/L	8270	
HEXACHLOROETHANE	34396	U <	10.000	UG/L	8270	
INDENO(123CD) PYRENE	34403	U <	10.000	UG/L	8270	
ISOPHORONE	34408	U <	10.000	UG/L	8270	
NITROSODIPROPYLAMINE	34428	U <	10.000	UG/L	8270	
NITROSODIPHENYLAMINE	34433	U <	10.000	UG/L	8270	
NITROBENZENE	34447	U <	10.000	UG/L	8270	
P-CHLORO-M-CRESOL	34452	U <	10.000	UG/L	8270	
PHENANTHRENE	34461	U <	10.000	UG/L	8270	
PYRENE	34469	U <	10.000	UG/L	8270	
BENZO(GHI) PERYLENE	34521	U <	10.000	UG/L	8270	
BENZO(A) ANTHRACENE	34526	U <	10.000	UG/L	8270	
1,2-DICHLOROBENZENE	34536	U <	10.000	UG/L	8270	
1,2,4-TRICHLOROBENZENE	34551	U <	10.000	UG/L	8270	
DIBENZO(AH) ANTHRACENE	34556	U <	10.000	UG/L	8270	
1,3-DICHLOROBENZENE	34566	U <	10.000	UG/L	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 4-DICHLOROBENZENE	34571	U <	10.000	UG/L	8270
2-CHLORONAPHTHALENE	34581	U <	10.000	UG/L	8270
2-CHLOROPHENOL	34586	U <	10.000	UG/L	8270
2-NITROPHENOL	34591	U <	10.000	UG/L	8270
DI-N-OCTYLPHthalate	34596	U <	10.000	UG/L	8270
2, 4-DICHLOROPHENOL	34601	U <	10.000	UG/L	8270
2, 4-DIMETHYLPHENOL	34606	U <	10.000	UG/L	8270
2, 4-DINITROTOLUENE	34611	U <	10.000	UG/L	8270
2, 4-DINITROPHENOL	34616	U <	50.000	UG/L	8270
2, 4, 6-TRICHLOROPHENOL	34621	U <	10.000	UG/L	8270
2, 6-DINITROTOLUENE	34626	U <	10.000	UG/L	8270
3, 3'-DICHLOROBENZIDINE	34631	U <	20.000	UG/L	8270
4-BROMOPHENYLPHENYL ETHER	34636	U <	10.000	UG/L	8270
4-CHLOROPHENYLPHENYL ETHER	34641	U <	10.000	UG/L	8270
4-NITROPHENOL	34646	U <	50.000	UG/L	8270
4, 6-DINITRO-O-CRESOL	34657	U <	50.000	UG/L	8270
PHENOL	34694	U <	10.000	UG/L	8270
NAPHTHALENE (GRO)	34696	U <	10.000	UG/L	8270
PENTACHLOROPHENOL	39032	U <	50.000	UG/L	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39100	U <	10.000	UG/L	8270
DI-N-BUTYLPHthalate	39110	U <	10.000	UG/L	8270
HEXACHLOROBENZENE	39700	U <	10.000	UG/L	8270
HEXACHLOROBUTADIENE	39702	U <	10.000	UG/L	8270
DIBENZOFURAN	75647	U <	10.000	UG/L	8270
BENZYL ALCOHOL	77147	U <	10.000	UG/L	8270
BENZOIC ACID	77247	U <	50.000	UG/L	8270
2-METHYLNAPHTHALENE	77416	U <	10.000	UG/L	8270
2-METHYL PHENOL	77923	U <	10.000	UG/L	8270
4-METHYL PHENOL	77925	U <	10.000	UG/L	8270
2, 4, 5-TRICHLOROPHENOL	77927	U <	50.000	UG/L	8270
4-CHLOROANALINE	77929	U <	10.000	UG/L	8270
2-NITROANALINE	77931	U <	50.000	UG/L	8270
3-NITROANALINE	77933	U <	50.000	UG/L	8270
4-NITROANALINE	77935	U <	50.000	UG/L	8270

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
DICHLOROBROMOMETHANE	32101	U <	5.000	UG/L	8240
CARBON TETRACHOLRIDE	32102	U <	5.000	UG/L	8240
BROMOFORM	32104	U <	5.000	UG/L	8240
CHLOROFORM	32106	U <	5.000	UG/L	8240
TOLUENE	34010	U <	5.000	UG/L	8240
BENZENE	34030	U <	5.000	UG/L	8240
CHLOROBENZENE	34301	U <	5.000	UG/L	8240
CHLORODIBROMOMETHANE	34306	U <	5.000	UG/L	8240
CHLOROETHANE	34311	U <	10.000	UG/L	8240
ETHYLBENZENE	34371	U <	5.000	UG/L	8240
METHYL BROMIDE	34413	U <	10.000	UG/L	8240
METHYL CHLORIDE	34418	U <	10.000	UG/L	8240
METHYLENE CHLORIDE	34423	U <	5.000	UG/L	8240
TETRACHLOROETHENE	34475	U <	5.000	UG/L	8240
1,1-DICHLOROETHANE	34496	U <	5.000	UG/L	8240
1,1-DICHLOROETHENE	34501	U <	5.000	UG/L	8240
1,1,1-TRICHLOROETHANE	34506	U <	5.000	UG/L	8240
1,1,2-TRICHLOROETHANE	34511	U <	5.000	UG/L	8240
1,1,2,2-TETRACHLOROETHANE	34516	U <	5.000	UG/L	8240
1,2-DICHLOROETHANE	34531	U <	5.000	UG/L	8240
1,2-DICHLOROPROPANE	34541	U <	5.000	UG/L	8240
TRANS-1,2-DICHLOROETHENE	34546	U <	5.000	UG/L	8240
2-CHLOROETHYL VINYL ETHER	34576	U <	10.000	UG/L	8240
TRANS-1,3-DICHLOROPROPENE	34699	U <	5.000	UG/L	8240
CIS-1,3-DICHLOROPROPENE	34704	U <	5.000	UG/L	8240
VINYL CHLORIDE	39175	U <	10.000	UG/L	8240
TRICHLOROETHENE	39180	U <	5.000	UG/L	8240
METHYLISOBUTYL KETONE	76148	U <	10.000	UG/L	8240
CARBON DISULFIDE	77041	U <	5.000	UG/L	8240
VINYL ACETATE	77057	U <	10.000	UG/L	8240
2-HEXANONE	77103	U <	10.000	UG/L	8240
STYRENE	77128	U <	5.000	UG/L	8240
XYLENES	81551	U <	5.000	UG/L	8240
ACETONE	81552	J	1.250	UG/L	8240
METHYLETHYL KETONE	81595	U <	10.000	UG/L	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SW-1

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260346
DATE COLLECTED: 03/25/98
TIME COLLECTED: 16:00
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KF

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

SURROGATE RECOVERIES	
COMPOUND	RECOVERY %
1,2-DICHLOROETHANE	77
2,4,6-TRIBROMOPHENOL	89
2-FLUOROBIPHENYL	97
2-FLUOROPHENOL	92
4-BROMOFLUOROBENZENE	91
NITROBENZENE-D5	71
P-TERPHENYL-D14	101
PHENOL-D5	54
TOLUENE-D8	92

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SW-2

ANALYST'S COMMENTS:

ANALYST

Bill Bitter

SAMPLE NUMBER: 260346
DATE COLLECTED: 03/25/98
TIME COLLECTED: 16:00
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KF

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH

COMPOUND	VALUE	UNIT
NONE FOUND	0	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SW-2

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260346

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

TIME COLLECTED: 16:00

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34200	U <	10.000	UG/L	8270	
ACENAPHTHENE	34205	U <	10.000	UG/L	8270	
ANTHRACENE	34220	U <	10.000	UG/L	8270	
BENZO (B) FLUORANTHENE	34230	U <	10.000	UG/L	8270	
BENZO (K) FLUORANTHENE	34242	U <	10.000	UG/L	8270	
BENZO (A) PYRENE	34247	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHYL) ETHER	34268	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHOXY) METHANE	34278	U <	10.000	UG/L	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34283	U <	10.000	UG/L	8270	
BUTYLBENZYLPHthalate	34292	U <	10.000	UG/L	8270	
CHRYSENE	34320	U <	10.000	UG/L	8270	
DIETHYLPHthalate	34336	U <	10.000	UG/L	8270	
DIMETHYLPHthalate	34341	U <	10.000	UG/L	8270	
FLUORANTHENE	34376	U <	10.000	UG/L	8270	
FLUORENE	34381	U <	10.000	UG/L	8270	
HEXACHLOROCYCLOPENTADIENE	34386	U <	10.000	UG/L	8270	
HEXACHLOROETHANE	34396	U <	10.000	UG/L	8270	
INDENO (123CD) PYRENE	34403	U <	10.000	UG/L	8270	
ISOPHORONE	34408	U <	10.000	UG/L	8270	
NITROSODIPROPYLAMINE	34428	U <	10.000	UG/L	8270	
NITROSODIPHENYLAMINE	34433	U <	10.000	UG/L	8270	
NITROBENZENE	34447	U <	10.000	UG/L	8270	
P-CHLORO-M-CRESOL	34452	U <	10.000	UG/L	8270	
PHENANTHRENE	34461	U <	10.000	UG/L	8270	
PYRENE	34469	U <	10.000	UG/L	8270	
BENZO (GHI) PERYLENE	34521	U <	10.000	UG/L	8270	
BENZO (A) ANTHRACENE	34526	U <	10.000	UG/L	8270	
1,2-DICHLOROBENZENE	34536	U <	10.000	UG/L	8270	
1,2,4-TRICHLOROBENZENE	34551	U <	10.000	UG/L	8270	
DIBENZO (AH) ANTHRACENE	34556	U <	10.000	UG/L	8270	
1,3-DICHLOROBENZENE	34566	U <	10.000	UG/L	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 4-DICHLOROBENZENE	34571	U <	10.000	UG/L	8270
2-CHLORONAPHTHALENE	34581	U <	10.000	UG/L	8270
2-CHLOROPHENOL	34586	U <	10.000	UG/L	8270
2-NITROPHENOL	34591	U <	10.000	UG/L	8270
DI-N-OCTYLPHthalate	34596	U <	10.000	UG/L	8270
2, 4-DICHLOROPHENOL	34601	U <	10.000	UG/L	8270
2, 4-DIMETHYLPHENOL	34606	U <	10.000	UG/L	8270
2, 4-DINITROTOLUENE	34611	U <	10.000	UG/L	8270
2, 4-DINITROPHENOL	34616	U <	50.000	UG/L	8270
2, 4, 6-TRICHLOROPHENOL	34621	U <	10.000	UG/L	8270
2, 6-DINITROTOLUENE	34626	U <	10.000	UG/L	8270
3, 3'-DICHLOROBENZIDINE	34631	U <	20.000	UG/L	8270
4-BROMOPHENYLPHENYL ETHER	34636	U <	10.000	UG/L	8270
4-CHLOROPHENYLPHENYL ETHER	34641	U <	10.000	UG/L	8270
4-NITROPHENOL	34646	U <	50.000	UG/L	8270
4, 6-DINITRO-O-CRESOL	34657	U <	50.000	UG/L	8270
PHENOL	34694	U <	10.000	UG/L	8270
NAPHTHALENE (GRO)	34696	U <	10.000	UG/L	8270
PENTACHLOROPHENOL	39032	U <	50.000	UG/L	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39100	U <	10.000	UG/L	8270
DI-N-BUTYLPHthalate	39110	U <	10.000	UG/L	8270
HEXACHLOROBENZENE	39700	U <	10.000	UG/L	8270
HEXACHLOROBUTADIENE	39702	U <	10.000	UG/L	8270
DIBENZOFURAN	75647	U <	10.000	UG/L	8270
BENZYL ALCOHOL	77147	U <	10.000	UG/L	8270
BENZOIC ACID	77247	U <	50.000	UG/L	8270
2-METHYLNAPHTHALENE	77416	U <	10.000	UG/L	8270
2-METHYL PHENOL	77923	U <	10.000	UG/L	8270
4-METHYL PHENOL	77925	U <	10.000	UG/L	8270
2, 4, 5-TRICHLOROPHENOL	77927	U <	50.000	UG/L	8270
4-CHLOROANALINE	77929	U <	10.000	UG/L	8270
2-NITROANALINE	77931	U <	50.000	UG/L	8270
3-NITROANALINE	77933	U <	50.000	UG/L	8270
4-NITROANALINE	77935	U <	50.000	UG/L	8270

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
DICHLOROBROMOMETHANE	32101	U <	5.000	UG/L	8240
CARBON TETRACHOLRIDE	32102	U <	5.000	UG/L	8240
BROMOFORM	32104	U <	5.000	UG/L	8240
CHLOROFORM	32106	U <	5.000	UG/L	8240
TOLUENE	34010	U <	5.000	UG/L	8240
BENZENE	34030	U <	5.000	UG/L	8240
CHLOROBENZENE	34301	U <	5.000	UG/L	8240
CHLORODIBROMOMETHANE	34306	U <	5.000	UG/L	8240
CHLOROETHANE	34311	U <	10.000	UG/L	8240
ETHYLBENZENE	34371	U <	5.000	UG/L	8240
METHYL BROMIDE	34413	U <	10.000	UG/L	8240
METHYL CHLORIDE	34418	U <	10.000	UG/L	8240
METHYLENE CHLORIDE	34423	U <	5.000	UG/L	8240
TETRACHLOROETHENE	34475	U <	5.000	UG/L	8240
1,1-DICHLOROETHANE	34496	U <	5.000	UG/L	8240
1,1-DICHLOROETHENE	34501	U <	5.000	UG/L	8240
1,1,1-TRICHLOROETHANE	34506	U <	5.000	UG/L	8240
1,1,2-TRICHLOROETHANE	34511	U <	5.000	UG/L	8240
1,1,2,2-TETRACHLOROETHANE	34516	U <	5.000	UG/L	8240
1,2-DICHLOROETHANE	34531	U <	5.000	UG/L	8240
1,2-DICHLOROPROPANE	34541	U <	5.000	UG/L	8240
TRANS-1,2-DICHLOROETHENE	34546	U <	5.000	UG/L	8240
2-CHLOROETHYL VINYL ETHER	34576	U <	10.000	UG/L	8240
TRANS-1,3-DICHLOROPROPENE	34699	U <	5.000	UG/L	8240
CIS-1,3-DICHLOROPROPENE	34704	U <	5.000	UG/L	8240
VINYL CHLORIDE	39175	U <	10.000	UG/L	8240
TRICHLOROETHENE	39180	U <	5.000	UG/L	8240
METHYLISOBUTYL KETONE	76148	U <	10.000	UG/L	8240
CARBON DISULFIDE	77041	U <	5.000	UG/L	8240
VINYL ACETATE	77057	U <	10.000	UG/L	8240
2-HEXANONE	77103	U <	10.000	UG/L	8240
STYRENE	77128	U <	5.000	UG/L	8240
XYLENES	81551	U <	5.000	UG/L	8240
ACETONE	81552		118.000	UG/L	8240
METHYLETHYL KETONE	81595	U <	10.000	UG/L	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
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SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SW-2

ANALYST'S COMMENTS:

ANALYST

Bill Batten

SAMPLE NUMBER: 260347
DATE COLLECTED: 03/24/98
TIME COLLECTED: 11:05
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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COMPOUND	SURROGATE RECOVERIES	PAGE
	RECOVERY %	1
1, 2-DICHLOROETHANE	89	
2, 4, 6-TRIBROMOPHENOL	82	
2-FLUOROBIPHENYL	95	
2-FLUOROPHENOL	223	
4-BROMOFLUOROBENZENE	99	
NITROBENZENE-D5	83	
P-TERPHENYL-D14	121	
PHENOL-D5	90	
TOLUENE-D8	99	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-1

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 29 % MOISTURE.

ANALYST

Bill Batten

SAMPLE NUMBER: 260347
DATE COLLECTED: 03/24/98
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HAZARDOUS WASTE DIVISION
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PAGE 1

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH

COMPOUND	VALUE	UNIT
NONE FOUND	0	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-1

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 29 % MOISTURE.

ANALYST

Bill Batten

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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE 1
	CODE	CM <	VALUE	UNITS	
ACENAPHTHYLENE	34203	U <	600.000	UG/KG	8270
ACENAPHTHENE	34208	U <	600.000	UG/KG	8270
ANTHRACENE	34223	U <	600.000	UG/KG	8270
BENZO (B) FLUORANTHENE	34233	U <	600.000	UG/KG	8270
BENZO (K) FLUORANTHENE	34245	U <	600.000	UG/KG	8270
BENZO (A) PYRENE	34250	U <	600.000	UG/KG	8270
BIS (2-CHLOROETHYL) ETHER	34271	U <	600.000	UG/KG	8270
BIS (2-CHLOROETHOXY) METHANE	34281	U <	600.000	UG/KG	8270
BIS (2-CHLOROISOPROPYL) ETHER	34286	U <	600.000	UG/KG	8270
BUTYLBENZYLPHthalate	34295	U <	600.000	UG/KG	8270
CHRYSENE	34323	U <	600.000	UG/KG	8270
DIETHYLPHthalate	34339	U <	600.000	UG/KG	8270
DIMETHYLPHthalate	34344	U <	600.000	UG/KG	8270
FLUORANTHENE	34379	U <	600.000	UG/KG	8270
FLUORENE	34384	U <	600.000	UG/KG	8270
HEXACHLOROCYCLOPENTADIENE	34389	U <	600.000	UG/KG	8270
HEXACHLOROETHANE	34399	U <	600.000	UG/KG	8270
INDENO (123-CD) PYRENE	34406	U <	600.000	UG/KG	8270
ISOPHORONE	34411	U <	600.000	UG/KG	8270
NITROSODIPROPYLAMINE	34431	U <	600.000	UG/KG	8270
NITROSODIPHENYLAMINE	34436	U <	600.000	UG/KG	8270
NAPHTHALENE	34445	U <	600.000	UG/KG	8270
NITROBENZENE	34450	U <	600.000	UG/KG	8270
P-CHLORO-M-CRESOL	34455	U <	600.000	UG/KG	8270
PHENANTHRENE	34464	U <	600.000	UG/KG	8270
PYRENE	34472	U <	600.000	UG/KG	8270
BENZO (GHI) PERYLENE	34524	U <	600.000	UG/KG	8270
BENZO (A) ANTHRACENE	34529	U <	600.000	UG/KG	8270
1,2-DICHLOROBENZENE	34539	U <	600.000	UG/KG	8270
1,2,4-TRICHLOROBENZENE	34554	U <	600.000	UG/KG	8270
DIBENZO (AH) ANTHRACENE	34559	U <	600.000	UG/KG	8270

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CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 3-DICHLOROBENZENE	34569	U <	600.000	UG/KG	8270
1, 4-DICHLOROBENZENE	34574	U <	600.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	600.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	600.000	UG/KG	8270
2-NITROPHENOL	34594	U <	600.000	UG/KG	8270
DI-N-OCTYLPHthalate	34599	U <	600.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	600.000	UG/KG	8270
2, 4-DIMETHLYPHENOL	34609	U <	600.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	600.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	3000.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	600.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	600.000	UG/KG	8270
3, 3'-DICHLOROBENIZDINE	34634	U <	1200.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	600.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	600.000	UG/KG	8270
4-NITROPHENOL	34649	U <	3000.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	3000.000	UG/KG	8270
PHENOL	34695	U <	600.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	3000.000	UG/KG	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	600.000	UG/KG	8270
DI-N-BUTYLPHthalate	39112	U <	600.000	UG/KG	8270
HEXACHLOROBENZENE S	39701	U <	600.000	UG/KG	8270
HEXACHLOROBUTADIENE	39705	U <	600.000	UG/KG	8270
BENZYL ALCOHOL	75212	U <	600.000	UG/KG	8270
BENZOIC ACID	75315	U <	3000.000	UG/KG	8270
DIBENZOFURAN	76619	U <	600.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	600.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	600.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	3000.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	600.000	UG/KG	8270
2-NITROANALINE	77932	U <	3000.000	UG/KG	8270
3-NITROANALINE	77934	U <	3000.000	UG/KG	8270
4-NITROANALINE	77936	U <	3000.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305	U <	600.000	UG/KG	8270

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	J	1.900	UG/KG	8240
BROMOFORM	34290	U <	7.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	7.000	UG/KG	8240
CHLOROBENZENE	34304	U <	7.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	7.000	UG/KG	8240
CHLOROETHANE	34314	U <	14.000	UG/KG	8240
CHLOROFORM	34318	U <	7.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	7.000	UG/KG	8240
ETHYLBENZENE	34374	U <	7.000	UG/KG	8240
METHYL BROMIDE	34416	U <	14.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	14.000	UG/KG	8240
METHYLENE CHLORIDE	34426	J	36.300	UG/KG	8240
TETRACHLOROETHENE	34478	U <	7.000	UG/KG	8240
TOLUENE	34483	U <	7.000	UG/KG	8240
TRICHLOROETHENE	34487	U <	7.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	14.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	7.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	7.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	7.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	7.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	7.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	7.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	7.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	7.000	UG/KG	8240
2-CHLOROETHYLVINYL ETHER	34579	U <	14.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	7.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	7.000	UG/KG	8240
XYLENES	45510	J	3.500	UG/KG	8240
ACETONE	75059	J	7.800	UG/KG	8240
METHYLETHYL KETONE	75078	J	7.600	UG/KG	8240
2-HEXANONE	75166	U <	14.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	14.000	UG/KG	8240
STRYENE	75192	U <	7.000	UG/KG	8240
VINYL ACETATE	75193	U <	14.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	7.000	UG/KG	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-1

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 29 % MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260348
DATE COLLECTED: 03/24/98
TIME COLLECTED: 15:20
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

SURROGATE RECOVERIES		PAGE	1
COMPOUND	RECOVERY %		
1, 2-DICHLOROETHANE	91		
2, 4, 6-TRIBROMOPHENOL	94		
2-FLUOROBIPHENYL	103		
2-FLUOROPHENOL	106		
4-BROMOFLUOROBENZENE	96		
NITROBENZENE-D5	66		
P-TERPHENYL-D14	110		
PHENOL-D5	93		
TOLUENE-D8	100		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-2

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 58% MOISTURE.

ANALYST

Bill Battens

SAMPLE NUMBER: 260348
DATE COLLECTED: 03/24/98
TIME COLLECTED: 15:20
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-2

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 58% MOISTURE.

ANALYST

Bill Batterz

SAMPLE NUMBER: 260348
AGENCY NUMBER:
DATE COLLECTED: 03/24/98
TIME COLLECTED: 15:20
DATE RECEIVED: 03/25/98
DATE COMPLETED: / /

PWS ID:
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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	1000.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	1000.000	UG/KG	8270	
ANTHRACENE	34223	U <	1000.000	UG/KG	8270	
BENZO(B) FLUORANTHENE	34233	U <	1000.000	UG/KG	8270	
BENZO(K) FLUORANTHENE	34245	U <	1000.000	UG/KG	8270	
BENZO(A) PYRENE	34250	U <	1000.000	UG/KG	8270	
BIS(2-CHLOROETHYL) ETHER	34271	U <	1000.000	UG/KG	8270	
BIS(2-CHLOROETHOXY) METHANE	34281	U <	1000.000	UG/KG	8270	
BIS(2-CHLOROISOPROPYL) ETHER	34286	U <	1000.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	1000.000	UG/KG	8270	
CHRYSENE	34323	U <	1000.000	UG/KG	8270	
DIE'HYLPHTHALATE	34339	U <	1000.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	1000.000	UG/KG	8270	
FLUORANTHENE	34379	U <	1000.000	UG/KG	8270	
FLUORENE	34384	U <	1000.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	1000.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	1000.000	UG/KG	8270	
INDENO(123-CD) PYRENE	34406	U <	1000.000	UG/KG	8270	
ISOPHORONE	34411	U <	1000.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	1000.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	1000.000	UG/KG	8270	
NAPHTHALENE	34445	U <	1000.000	UG/KG	8270	
NITROBENZENE	34450	U <	1000.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	1000.000	UG/KG	8270	
PHENANTHRENE	34464	U <	1000.000	UG/KG	8270	
PYRENE	34472	U <	1000.000	UG/KG	8270	
BENZO(GHI) PERYLENE	34524	U <	1000.000	UG/KG	8270	
BENZO(A) ANTHRACENE	34529	U <	1000.000	UG/KG	8270	
1,2-DICHLOROBENZENE	34539	U <	1000.000	UG/KG	8270	
1,2,4-TRICHLOROBENZENE	34554	U <	1000.000	UG/KG	8270	
DIBENZO(AH) ANTHRACENE	34559	U <	1000.000	UG/KG	8270	

CM:

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 3-DICHLOROBENZENE	34569	U <	1000.000	UG/KG	8270
1, 4-DICHLOROBENZENE	34574	U <	1000.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	1000.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	1000.000	UG/KG	8270
2-NITROPHENOL	34594	U <	1000.000	UG/KG	8270
DI-N-OCTYLPHthalate	34599	U <	1000.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	1000.000	UG/KG	8270
2, 4-DIMETHLYPHENOL	34609	U <	1000.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	1000.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	5000.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	1000.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	1000.000	UG/KG	8270
3, 3'-DICHLOROBENIZDINE	34634	U <	2000.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	1000.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	1000.000	UG/KG	8270
4-NITROPHENOL	34649	U <	5000.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	5000.000	UG/KG	8270
PHENOL	34695	U <	1000.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	5000.000	UG/KG	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	1000.000	UG/KG	8270
DI-N-BUTYLPHthalate	39112	U <	1000.000	UG/KG	8270
HEXACHLOROBENZENE S	39701	U <	1000.000	UG/KG	8270
HEXACHLOROBUTADIENE	39705	U <	1000.000	UG/KG	8270
BENZYL ALCOHOL	75212	U <	1000.000	UG/KG	8270
BENZOIC ACID	75315	U <	5000.000	UG/KG	8270
DIBENZOFURAN	76619	U <	1000.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	1000.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	1000.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	5000.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	1000.000	UG/KG	8270
2-NITROANALINE	77932	U <	5000.000	UG/KG	8270
3-NITROANALINE	77934	U <	5000.000	UG/KG	8270
4-NITROANALINE	77936	U <	5000.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305	U <	1000.000	UG/KG	8270

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	J	4.000	UG/KG	8240
BROMOFORM	34290	U <	12.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	12.000	UG/KG	8240
CHLOROBENZENE	34304	U <	12.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	12.000	UG/KG	8240
CHLOROETHANE	34314	U <	24.000	UG/KG	8240
CHLOROFORM	34318	U <	12.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	12.000	UG/KG	8240
ETHYLBENZENE	34374	U <	12.000	UG/KG	8240
METHYL BROMIDE	34416	U <	24.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	24.000	UG/KG	8240
METHYLENE CHLORIDE	34426	J	61.400	UG/KG	8240
TETRACHLOROETHENE	34478	U <	12.000	UG/KG	8240
TOLUENE	34483	U <	12.000	UG/KG	8240
TRICHLOROETHENE	34487	U <	12.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	24.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	12.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	12.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	12.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	12.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	12.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	12.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	12.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	12.000	UG/KG	8240
2-CHLOROETHYLVINYL ETHER	34579	U <	24.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	12.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	12.000	UG/KG	8240
XYLEMES	45510	U <	12.000	UG/KG	8240
ACETONE	75059		122.600	UG/KG	8240
METHYLETHYL KETONE	75078		51.800	UG/KG	8240
2-HEXANONE	75166	U <	24.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	24.000	UG/KG	8240
STRYENE	75192	U <	12.000	UG/KG	8240
VINYL ACETATE	75193	U <	24.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	12.000	UG/KG	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
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SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-2

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 58% MOISTURE.

ANALYST



SAMPLE NUMBER: 260349
DATE COLLECTED: 03/24/98
TIME COLLECTED: 11:05
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

SURROGATE RECOVERIES	
COMPOUND	RECOVERY %
1, 2-DICHLOROETHANE	93
2, 4, 6-TRIBROMOPHENOL	105
2-FLUOROBIPHENYL	109
2-FLUOROPHENOL	114
4-BROMOFLUOROBENZENE	91
NITROBENZENE-D5	73
P-TERPHENYL-D14	108
PHENOL-D5	96
TOLUENE-D8	103

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-3

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 61% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260349
DATE COLLECTED: 03/24/98
TIME COLLECTED: 11:05
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
9-OCTADICENAMIDE	11000	UG/KG	
HEPTADECANE	4500	UG/KG	
OCTADECANOIC ACID, BUTYL ESTER	4900	UG/KG	
UNKNOWN HYDROCARBON SCAN #2116 (SEMIVOL)	5500	UG/KG	
UNKNOWN HYDROCARBON SCAN #3669 (SEMIVOL)	4900	UG/KG	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-3

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 61% MOISTURE.

ANALYST

Bill Bell

SAMPLE NUMBER: 260349

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 11:05

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	1000.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	1000.000	UG/KG	8270	
ANTHRACENE	34223	U <	1000.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	1000.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	1000.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	1000.000	UG/KG	8270	
BIS (2-CHLOROETHYL) ETHER	34271	U <	1000.000	UG/KG	8270	
BIS (2-CHLOROETHOXY) METHANE	34281	U <	1000.000	UG/KG	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34286	U <	1000.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	1000.000	UG/KG	8270	
CHRYSENE	34323	U <	1000.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	1000.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	1000.000	UG/KG	8270	
FLUORANTHENE	34379	U <	1000.000	UG/KG	8270	
FLUORENE	34384	U <	1000.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	1000.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	1000.000	UG/KG	8270	
INDENO (123-CD) PYRENE	34406	U <	1000.000	UG/KG	8270	
ISOPHORONE	34411	U <	1000.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	1000.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	1000.000	UG/KG	8270	
NAPHTHALENE	34445	U <	1000.000	UG/KG	8270	
NITROBENZENE	34450	U <	1000.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	1000.000	UG/KG	8270	
PHENANTHRENE	34464	U <	1000.000	UG/KG	8270	
PYRENE	34472	U <	1000.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	1000.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529	U <	1000.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	1000.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	1000.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	1000.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 3-DICHLOROBENZENE	34569	U <	1000.000	UG/KG	8270
1, 4-DICHLOROBENZENE	34574	U <	1000.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	1000.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	1000.000	UG/KG	8270
2-NITROPHENOL	34594	U <	1000.000	UG/KG	8270
DI-N-OCTYLPHthalate	34599	U <	1000.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	1000.000	UG/KG	8270
2, 4-DIMETHLYPHENOL	34609	U <	1000.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	1000.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	5000.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	1000.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	1000.000	UG/KG	8270
3, 3'-DICHLOROBENIZDINE	34634	U <	2000.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	1000.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	1000.000	UG/KG	8270
4-NITROPHENOL	34649	U <	5000.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	5000.000	UG/KG	8270
PHENOL	34695	U <	1000.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	5000.000	UG/KG	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	1000.000	UG/KG	8270
DI-N-BUTYLPHthalate	39112	U <	1000.000	UG/KG	8270
HEXACHLOROBENZENE S	39701	U <	1000.000	UG/KG	8270
HEXACHLOROBUTADIENE	39705	U <	1000.000	UG/KG	8270
BENZYL ALCOHOL	75212	U <	1000.000	UG/KG	8270
BENZOIC ACID	75315	U <	5000.000	UG/KG	8270
DIBENZOFURAN	76619	U <	1000.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	1000.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	1000.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	5000.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	1000.000	UG/KG	8270
2-NITROANALINE	77932	U <	5000.000	UG/KG	8270
3-NITROANALINE	77934	U <	5000.000	UG/KG	8270
4-NITROANALINE	77936	U <	5000.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305	U <	1000.000	UG/KG	8270

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	13.000	UG/KG	8240
BROMOFORM	34290	U <	13.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	13.000	UG/KG	8240
CHLOROBENZENE	34304	U <	13.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	13.000	UG/KG	8240
CHLOROETHANE	34314	U <	26.000	UG/KG	8240
CHLOROFORM	34318	U <	13.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	13.000	UG/KG	8240
ETHYLBENZENE	34374	U <	13.000	UG/KG	8240
METHYL BROMIDE	34416	U <	26.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	26.000	UG/KG	8240
METHYLENE CHLORIDE	34426		60.200	UG/KG	8240
TETRACHLOROETHENE	34478	U <	13.000	UG/KG	8240
TOLUENE	34483	J	29.400	UG/KG	8240
TRICHLOROETHENE	34487	U <	13.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	26.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	13.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	13.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	13.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	13.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	13.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	13.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	13.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	13.000	UG/KG	8240
2-CHLOROETHYLVINYL ETHER	34579	U <	26.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	13.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	13.000	UG/KG	8240
XYLEMES	45510	U <	13.000	UG/KG	8240
ACETONE	75059		372.000	UG/KG	8240
METHYLETHYL KETONE	75078		132.000	UG/KG	8240
2-HEXANONE	75166	U <	26.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	26.000	UG/KG	8240
STRYENE	75192	U <	13.000	UG/KG	8240
VINYL ACETATE	75193	U <	26.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	13.000	UG/KG	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-3

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 61% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260350
DATE COLLECTED: 03/24/98
TIME COLLECTED: 12:15
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

SURROGATE RECOVERIES	
COMPOUND	RECOVERY %
1,2-DICHLOROETHANE	89
2,4,6-TRIBROMOPHENOL	120
2-FLUOROBIPHENYL	115
2-FLUOROPHENOL	125
4-BROMOFLUOROBENZENE	96
NITROBENZENE-D5	83
P-TERPHENYL-D14	112
PHENOL-D5	107
TOLUENE-D8	99

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-4

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 30% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260350
DATE COLLECTED: 03/24/98
TIME COLLECTED: 12:15
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
9-OCTADECENAMIDE	3900	UG/KG	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-4

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 30% MOISTURE.

ANALYST

Bill Ballew

CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 3-DICHLOROBENZENE	34569	U <	700.000	UG/KG	8270
1, 4-DICHLOROBENZENE	34574	U <	700.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	700.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	700.000	UG/KG	8270
2-NITROPHENOL	34594	U <	700.000	UG/KG	8270
DI-N-OCTYLPHthalate	34599	U <	700.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	700.000	UG/KG	8270
2, 4-DIMETHYLPHENOL	34609	U <	700.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	700.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	3500.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	700.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	700.000	UG/KG	8270
3, 3'-DICHLOROBENZIDINE	34634	U <	1400.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	700.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	700.000	UG/KG	8270
4-NITROPHENOL	34649	U <	3500.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	3500.000	UG/KG	8270
PHENOL	34695	U <	700.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	3500.000	UG/KG	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	700.000	UG/KG	8270
DI-N-BUTYLPHthalate	39112	U <	700.000	UG/KG	8270
HEXAChLOROBENZENE S	39701	U <	700.000	UG/KG	8270
HEXAChLOROBUTADIENE	39705	U <	700.000	UG/KG	8270
BENZYL ALCOHOL	75212	U <	700.000	UG/KG	8270
BENZOIC ACID	75315	U <	3500.000	UG/KG	8270
DIBENZOFURAN	76619	U <	700.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	700.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	700.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	3500.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	700.000	UG/KG	8270
2-NITROANALINE	77932	U <	3500.000	UG/KG	8270
3-NITROANALINE	77934	U <	3500.000	UG/KG	8270
4-NITROANALINE	77936	U <	3500.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305	U <	700.000	UG/KG	8270

CM:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value.

B - Indicates the analyte is found in the associated blank as well as in the sample.

R - Indicates compound was not analyzed for.

SAMPLE NUMBER: 260350

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 12:15

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	700.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	700.000	UG/KG	8270	
ANTHRACENE	34223	U <	700.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	700.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	700.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	700.000	UG/KG	8270	
BIS(2-CHLOROETHYL) ETHER	34271	U <	700.000	UG/KG	8270	
BIS(2-CHLOROETHOXY) METHANE	34281	U <	700.000	UG/KG	8270	
BIS(2-CHLOROISOPROPYL) ETHER	34286	U <	700.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	700.000	UG/KG	8270	
CHRYSENE	34323	U <	700.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	700.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	700.000	UG/KG	8270	
FLUORANTHENE	34379	U <	700.000	UG/KG	8270	
FLUORENE	34384	U <	700.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	700.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	700.000	UG/KG	8270	
INDENO(123-CD) PYRENE	34406	U <	700.000	UG/KG	8270	
ISOPHORONE	34411	U <	700.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	700.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	700.000	UG/KG	8270	
NAPHTHALENE	34445	U <	700.000	UG/KG	8270	
NITROBENZENE	34450	U <	700.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	700.000	UG/KG	8270	
PHENANTHRENE	34464	U <	700.000	UG/KG	8270	
PYRENE	34472	U <	700.000	UG/KG	8270	
BENZO(GHI) PERYLENE	34524	U <	700.000	UG/KG	8270	
BENZO(A) ANTHRACENE	34529	U <	700.000	UG/KG	8270	
1,2-DICHLOROBENZENE	34539	U <	700.000	UG/KG	8270	
1,2,4-TRICHLOROBENZENE	34554	U <	700.000	UG/KG	8270	
DIBENZO(AH) ANTHRACENE	34559	U <	700.000	UG/KG	8270	

CM:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value.

B - Indicates the analyte is found in the associated blank as well as in the sample.

R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *					PAGE	3
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
BENZENE	34237	U <	8.000	UG/KG	8240	
BROMOFORM	34290	U <	8.000	UG/KG	8240	
CARBON TETRACHLORIDE	34299	U <	8.000	UG/KG	8240	
CHLOROBENZENE	34304	U <	8.000	UG/KG	8240	
DIBROMOCHLOROMETHANE	34309	U <	8.000	UG/KG	8240	
CHLOROETHANE	34314	U <	16.000	UG/KG	8240	
CHLOROFORM	34318	U <	8.000	UG/KG	8240	
DICHLOROBROMOMETHANE	34330	U <	8.000	UG/KG	8240	
ETHYLBENZENE	34374	U <	8.000	UG/KG	8240	
METHYL BROMIDE	34416	U <	16.000	UG/KG	8240	
METHYL CHLORIDE	34421	U <	16.000	UG/KG	8240	
METHYLENE CHLORIDE	34426	J	42.000	UG/KG	8240	
TETRACHLOROETHENE	34478	U <	8.000	UG/KG	8240	
TOLUENE	34483	U <	8.000	UG/KG	8240	
TRICHLOROETHENE	34487	U <	8.000	UG/KG	8240	
VINYL CHLORIDE	34495	U <	16.000	UG/KG	8240	
1,1-DICHLOROETHANE	34499	U <	8.000	UG/KG	8240	
1,1-DICHLOROETHENE	34504	U <	8.000	UG/KG	8240	
1,1,1-TRICHLOROETHANE	34509	U <	8.000	UG/KG	8240	
1,1,2-TRICHLOROETHANE	34514	U <	8.000	UG/KG	8240	
1,1,2,2-TETRACHLOROETHANE	34519	U <	8.000	UG/KG	8240	
1,2-DICHLOROETHANE	34534	U <	8.000	UG/KG	8240	
1,2-DICHLOROPROPANE	34544	U <	8.000	UG/KG	8240	
TRANS-1,2-DICHLOROETHENE	34549	U <	8.000	UG/KG	8240	
2-CHLOROETHYL VINYL ETHER	34579	U <	16.000	UG/KG	8240	
TRANS-1,3-DICHLOROPROPENE	34697	U <	8.000	UG/KG	8240	
CIS-1,3-DICHLOROPROPENE	34702	U <	8.000	UG/KG	8240	
XYLEMES	45510	U <	8.000	UG/KG	8240	
ACETONE	75059		61.000	UG/KG	8240	
METHYLETHYL KETONE	75078		25.500	UG/KG	8240	
2-HEXANONE	75166	U <	16.000	UG/KG	8240	
METHYLISOBUTYL KETONE	75169	U <	16.000	UG/KG	8240	
STRYENE	75192	U <	8.000	UG/KG	8240	
VINYL ACETATE	75193	U <	16.000	UG/KG	8240	
CARBON DISULFIDE	77938	U <	8.000	UG/KG	8240	

CM:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value.

B - Indicates the analyte is found in the associated blank as well as in the sample.

R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-4

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 30% MOISTURE.

ANALYST

Bill Ballew

SAMPLE NUMBER: 260351
DATE COLLECTED: 03/24/98
TIME COLLECTED: 09:55
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

SURROGATE RECOVERIES	
COMPOUND	RECOVERY %
1,2-DICHLOROETHANE	86
2,4,6-TRIBROMOPHENOL	92
2-FLUOROBIPHENYL	95
2-FLUOROPHENOL	99
4-BROMOFLUOROBENZENE	97
NITROBENZENE-D5	65
P-TERPHENYL-D14	103
PHENOL-D5	84
TOLUENE-D8	98

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-5

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 33% MOISTURE.

ANALYST

Bill Batten

SAMPLE NUMBER: 260351
DATE COLLECTED: 03/24/98
TIME COLLECTED: 09:55
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-5

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 33% MOISTURE.

ANALYST

Bill Ballou

SAMPLE NUMBER: 260351
 AGENCY NUMBER:
 DATE COLLECTED: 03/24/98
 TIME COLLECTED: 09:55
 DATE RECEIVED: 03/25/98
 DATE COMPLETED: / /
 PWS ID:
 STATION:
 COLLECTED BY: KK
 DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
 REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
 KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	600.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	600.000	UG/KG	8270	
ANTHRACENE	34223	U <	600.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	600.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	600.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	600.000	UG/KG	8270	
BIS (2-CHLOROETHYL) ETHER	34271	U <	600.000	UG/KG	8270	
BIS (2-CHLOROETHOXY) METHANE	34281	U <	600.000	UG/KG	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34286	U <	600.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	600.000	UG/KG	8270	
CHRYSENE	34323	U <	600.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	600.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	600.000	UG/KG	8270	
FLUORANTHENE	34379	U <	600.000	UG/KG	8270	
FLUORENE	34384	U <	600.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	600.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	600.000	UG/KG	8270	
INDENO (123-CD) PYRENE	34406	U <	600.000	UG/KG	8270	
ISOPHORONE	34411	U <	600.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	600.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	600.000	UG/KG	8270	
NAPHTHALENE	34445	U <	600.000	UG/KG	8270	
NITROBENZENE	34450	U <	600.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	600.000	UG/KG	8270	
PHENANTHRENE	34464	U <	600.000	UG/KG	8270	
PYRENE	34472	U <	600.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	600.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529	U <	600.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	600.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	600.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	600.000	UG/KG	8270	

CM:

U - Indicates compound was analyzed for but not detected.

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * EXTRACTABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
1, 3-DICHLOROBENZENE	34569	U <	600.000	UG/KG	8270	
1, 4-DICHLOROBENZENE	34574	U <	600.000	UG/KG	8270	
2-CHLORONAPHTHALENE	34584	U <	600.000	UG/KG	8270	
2-CHLOROPHENOL	34589	U <	600.000	UG/KG	8270	
2-NITROPHENOL	34594	U <	600.000	UG/KG	8270	
DI-N-OCTYLPHTHALATE	34599	U <	600.000	UG/KG	8270	
2, 4-DICHLOROPHENOL	34604	U <	600.000	UG/KG	8270	
2, 4-DIMETHLYPHENOL	34609	U <	600.000	UG/KG	8270	
2, 4-DINITROTOLUENE S	34614	U <	600.000	UG/KG	8270	
2, 4-DINITROPHENOL	34619	U <	3000.000	UG/KG	8270	
2, 4, 6-TRICHLOROPHENOL	34624	U <	600.000	UG/KG	8270	
2, 6-DINITROTOLUENE	34629	U <	600.000	UG/KG	8270	
3, 3'-DICHLOROBENIZDINE	34634	U <	1200.000	UG/KG	8270	
4-BROMOPHENYLPHENYL ETHER	34639	U <	600.000	UG/KG	8270	
4-CHLOROPHENYLPHENYL ETHER	34644	U <	600.000	UG/KG	8270	
4-NITROPHENOL	34649	U <	3000.000	UG/KG	8270	
4, 6-DINITRO-O-CRESOL	34660	U <	3000.000	UG/KG	8270	
PHENOL	34695	U <	600.000	UG/KG	8270	
PENTACHLOROPHENOL	39061	U <	3000.000	UG/KG	8270	
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	600.000	UG/KG	8270	
DI-N-BUTYLPHTHALATE	39112	U <	600.000	UG/KG	8270	
HEXACHLOROBENZENE S	39701	U <	600.000	UG/KG	8270	
HEXACHLOROBUTADIENE	39705	U <	600.000	UG/KG	8270	
BENZYL ALCOHOL	75212	U <	600.000	UG/KG	8270	
BENZOIC ACID	75315	U <	3000.000	UG/KG	8270	
DIBENZOFURAN	76619	U <	600.000	UG/KG	8270	
2-METHYLPHENOL	77924	U <	600.000	UG/KG	8270	
4-METHYLPHENOL	77926	U <	600.000	UG/KG	8270	
2, 4, 5-TRICHLOROPHENOL	77928	U <	3000.000	UG/KG	8270	
4-CHLOROANALINE	77930	U <	600.000	UG/KG	8270	
2-NITROANALINE	77932	U <	3000.000	UG/KG	8270	
3-NITROANALINE	77934	U <	3000.000	UG/KG	8270	
4-NITROANALINE	77936	U <	3000.000	UG/KG	8270	
2-METHYLNAPHTHALENE	78305	U <	600.000	UG/KG	8270	

CM:

U - Indicates compound was analyzed for but not detected.

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	7.000	UG/KG	8240
BROMOFORM	34290	U <	7.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	7.000	UG/KG	8240
CHLOROBENZENE	34304	U <	7.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	7.000	UG/KG	8240
CHLOROETHANE	34314	U <	14.000	UG/KG	8240
CHLOROFORM	34318	U <	7.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	7.000	UG/KG	8240
ETHYLBENZENE	34374	U <	7.000	UG/KG	8240
METHYL BROMIDE	34416	U <	14.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	14.000	UG/KG	8240
METHYLENE CHLORIDE	34426		36.200	UG/KG	8240
TETRACHLOROETHENE	34478	U <	7.000	UG/KG	8240
TOLUENE	34483	U <	7.000	UG/KG	8240
TRICHLOROETHENE	34487	U <	7.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	14.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	7.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	7.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	7.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	7.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	7.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	7.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	7.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	7.000	UG/KG	8240
2-CHLOROETHYL VINYL ETHER	34579	U <	14.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	7.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	7.000	UG/KG	8240
XYL ^E NES	45510	U <	7.000	UG/KG	8240
ACETONE	75059		51.500	UG/KG	8240
METHYLETHYL KETONE	75078		14.200	UG/KG	8240
2-HEXANONE	75166	U <	14.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	14.000	UG/KG	8240
STRYENE	75192	U <	7.000	UG/KG	8240
VINYL ACETATE	75193	U <	14.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	7.000	UG/KG	8240

CM:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value.

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-5

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 33% MOISTURE.

ANALYST

Bill Baller

SAMPLE NUMBER: 260352
DATE COLLECTED: 03/24/98
TIME COLLECTED: 12:10
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

SURROGATE RECOVERIES		PAGE	1
COMPOUND	RECOVERY %		
1,2-DICHLOROETHANE	85		
2,4,6-TRIBROMOPHENOL	84		
2-FLUOROBIPHENYL	86		
2-FLUOROPHENOL	89		
4-BROMOFLUOROBENZENE	94		
NITROBENZENE-D5	82		
P-TERPHENYL-D14	99		
PHENOL-D5	80		
TOLUENE-D8	98		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-6

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY EWIGHT. 27% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260352
DATE COLLECTED: 03/24/98
TIME COLLECTED: 12:10
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
9-OCTADECENAMIDE	3900	UG/KG	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-6

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY EWIGHT. 27% MOISTURE.

ANALYST

Bill Batten

SAMPLE NUMBER: 260352

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 12:10

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	500.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	500.000	UG/KG	8270	
ANTHRACENE	34223	U <	500.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	500.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	500.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	500.000	UG/KG	8270	
BIS (2-CHLOROETHYL) ETHER	34271	U <	500.000	UG/KG	8270	
BIS (2-CHLOROETHOXY) METHANE	34281	U <	500.000	UG/KG	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34286	U <	500.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	500.000	UG/KG	8270	
CHRYSENE	34323	U <	500.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	500.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	500.000	UG/KG	8270	
FLUORANTHENE	34379	U <	500.000	UG/KG	8270	
FLUORENE	34384	U <	500.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	500.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	500.000	UG/KG	8270	
INDENO (123-CD) PYRENE	34406	U <	500.000	UG/KG	8270	
ISOPHORONE	34411	U <	500.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	500.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	500.000	UG/KG	8270	
NAPHTHALENE	34445	U <	500.000	UG/KG	8270	
NITROBENZENE	34450	U <	500.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	500.000	UG/KG	8270	
PHENANTHRENE	34464	U <	500.000	UG/KG	8270	
PYRENE	34472	U <	500.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	500.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529	U <	500.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	500.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	500.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	500.000	UG/KG	8270	

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 3-DICHLOROBENZENE	34569	U <	500.000	UG/KG	8270
1, 4-DICHLOROBENZENE	34574	U <	500.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	500.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	500.000	UG/KG	8270
2-NITROPHENOL	34594	U <	500.000	UG/KG	8270
DI-N-OCTYLPHthalate	34599	U <	500.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	500.000	UG/KG	8270
2, 4-DIMETHLYPHENOL	34609	U <	500.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	500.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	2500.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	500.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	500.000	UG/KG	8270
3, 3'-DICHLOROBENIZDINE	34634	U <	1000.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	500.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	500.000	UG/KG	8270
4-NITROPHENOL	34649	U <	2500.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	2500.000	UG/KG	8270
PHENOL	34695	U <	500.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	2500.000	UG/KG	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	500.000	UG/KG	8270
DI-N-BUTYLPHthalate	39112	U <	500.000	UG/KG	8270
HEXACHLOROBENZENE S	39701	U <	500.000	UG/KG	8270
HEXACHLOROBUTADIENE	39705	U <	500.000	UG/KG	8270
BENZYL ALCOHOL	75212	U <	500.000	UG/KG	8270
BENZOIC ACID	75315	U <	2500.000	UG/KG	8270
DIBENZOFURAN	76619	U <	500.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	500.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	500.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	2500.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	500.000	UG/KG	8270
2-NITROANALINE	77932	U <	2500.000	UG/KG	8270
3-NITROANALINE	77934	U <	2500.000	UG/KG	8270
4-NITROANALINE	77936	U <	2500.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305	U <	500.000	UG/KG	8270

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	7.000	UG/KG	8240
BROMOFORM	34290	U <	7.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	7.000	UG/KG	8240
CHLOROBENZENE	34304	U <	7.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	7.000	UG/KG	8240
CHLOROETHANE	34314	U <	14.000	UG/KG	8240
CHLOROFORM	34318	U <	7.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	7.000	UG/KG	8240
ETHYLBENZENE	34374	U <	7.000	UG/KG	8240
METHYL BROMIDE	34416	U <	14.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	14.000	UG/KG	8240
METHYLENE CHLORIDE	34426		41.500	UG/KG	8240
TETRACHLOROETHENE	34478	U <	7.000	UG/KG	8240
TOLUENE	34483	U <	7.000	UG/KG	8240
TRICHLOROETHENE	34487	U <	7.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	14.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	7.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	7.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	7.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	7.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	7.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	7.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	7.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	7.000	UG/KG	8240
2-CHLOROETHYLVINYL ETHER	34579	U <	14.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	7.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	7.000	UG/KG	8240
XYLENES	45510	U <	7.000	UG/KG	8240
ACETONE	75059		8.400	UG/KG	8240
METHYLETHYL KETONE	75078		7.500	UG/KG	8240
2-HEXANONE	75166	U <	14.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	14.000	UG/KG	8240
STRYENE	75192	U <	7.000	UG/KG	8240
VINYL ACETATE	75193	U <	14.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	7.000	UG/KG	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
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SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-6

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY EWIGHT. 27% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260353
DATE COLLECTED: 03/24/98
TIME COLLECTED: 12:15
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

COMPOUND	SURROGATE RECOVERIES	PAGE	1
	RECOVERY %		
1, 2-DICHLOROETHANE	84		
2, 4, 6-TRIBROMOPHENOL	144		
2-FLUOROBIPHENYL	140		
2-FLUOROPHENOL	152		
4-BROMOFLUOROBENZENE	94		
NITROBENZENE-D5	98		
P-TERPHENYL-D14	153		
PHENOL-D5	125		
TOLUENE-D8	98		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-7

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 61% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260353
DATE COLLECTED: 03/24/98
TIME COLLECTED: 12:15
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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
9-OCTADECENAMIDE	5300	UG/KG	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-7

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 61% MOISTURE.

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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
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ACENAPHTHENE	34208	U <	1000.000	UG/KG	8270	
ANTHRACENE	34223	U <	1000.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	1000.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	1000.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	1000.000	UG/KG	8270	
BIS (2-CHLOROETHYL) ETHER	34271	U <	1000.000	UG/KG	8270	
BIS (2-CHLOROETHOXY) METHANE	34281	U <	1000.000	UG/KG	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34286	U <	1000.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	1000.000	UG/KG	8270	
CHRYSENE	34323	U <	1000.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	1000.000	UG/KG	8270	
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FLUORANTHENE	34379	U <	1000.000	UG/KG	8270	
FLUORENE	34384	U <	1000.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	1000.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	1000.000	UG/KG	8270	
INDENO (123-CD) PYRENE	34406	U <	1000.000	UG/KG	8270	
ISOPHORONE	34411	U <	1000.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	1000.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	1000.000	UG/KG	8270	
NAPHTHALENE	34445	U <	1000.000	UG/KG	8270	
NITROBENZENE	34450	U <	1000.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	1000.000	UG/KG	8270	
PHENANTHRENE	34464	U <	1000.000	UG/KG	8270	
PYRENE	34472	U <	1000.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	1000.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529	U <	1000.000	UG/KG	8270	
1,2-DICHLOROBENZENE	34539	U <	1000.000	UG/KG	8270	
1,2,4-TRICHLOROBENZENE	34554	U <	1000.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	1000.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *

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PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 3-DICHLOROBENZENE	34569	U <	1000.000	UG/KG	8270
1, 4-DICHLOROBENZENE	34574	U <	1000.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	1000.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	1000.000	UG/KG	8270
2-NITROPHENOL	34594	U <	1000.000	UG/KG	8270
DI-N-OCTYLPHthalate	34599	U <	1000.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	1000.000	UG/KG	8270
2, 4-DIMETHLYPHENOL	34609	U <	1000.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	1000.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	5000.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	1000.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	1000.000	UG/KG	8270
3, 3'-DICHLOROBENIZDINE	34634	U <	2000.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	1000.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	1000.000	UG/KG	8270
4-NITROPHENOL	34649	U <	5000.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	5000.000	UG/KG	8270
PHENOL	34695	U <	1000.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	5000.000	UG/KG	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	1000.000	UG/KG	8270
DI-N-BUTYLPHthalate	39112	U <	1000.000	UG/KG	8270
HEXACHLOROBENZENE S	39701	U <	1000.000	UG/KG	8270
HEXACHLOROBUTADIENE	39705	U <	1000.000	UG/KG	8270
BENZYL ALCOHOL	75212	U <	1000.000	UG/KG	8270
BENZOIC ACID	75315	U <	5000.000	UG/KG	8270
DIBENZOFURAN	76619	U <	1000.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	1000.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	1000.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	5000.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	1000.000	UG/KG	8270
2-NITROANALINE	77932	U <	5000.000	UG/KG	8270
3-NITROANALINE	77934	U <	5000.000	UG/KG	8270
4-NITROANALINE	77936	U <	5000.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305	U <	1000.000	UG/KG	8270

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	13.000	UG/KG	8240
BROMOFORM	34290	U <	13.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	13.000	UG/KG	8240
CHLOROBENZENE	34304	U <	13.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	13.000	UG/KG	8240
CHLOROETHANE	34314	U <	26.000	UG/KG	8240
CHLOROFORM	34318	U <	13.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	13.000	UG/KG	8240
ETHYLBENZENE	34374	U <	13.000	UG/KG	8240
METHYL BROMIDE	34416	U <	26.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	26.000	UG/KG	8240
METHYLENE CHLORIDE	34426		62.700	UG/KG	8240
TETRACHLOROETHENE	34478	U <	13.000	UG/KG	8240
TOLUENE	34483	J	23.600	UG/KG	8240
TRICHLOROETHENE	34487	U <	13.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	26.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	13.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	13.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	13.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	13.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	13.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	13.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	13.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	13.000	UG/KG	8240
2-CHLOROETHYLVINYL ETHER	34579	U <	26.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	13.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	13.000	UG/KG	8240
XYLENES	45510	U <	13.000	UG/KG	8240
ACETONE	75059		106.000	UG/KG	8240
METHYLETHYL KETONE	75078	U <	26.000	UG/KG	8240
2-HEXANONE	75166	U <	26.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	26.000	UG/KG	8240
STRYENE	75192	U <	13.000	UG/KG	8240
VINYL ACETATE	75193	U <	26.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	13.000	UG/KG	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SD-7

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 61% MOISTURE.

ANALYST

Bill Battens

SAMPLE NUMBER: 260354
DATE COLLECTED: 03/24/98
TIME COLLECTED: 11:50
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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SURROGATE RECOVERIES		PAGE	1
COMPOUND	RECOVERY %		
1,2-DICHLOROETHANE	84		
2,4,6-TRIBROMOPHENOL	51		
2-FLUOROBIPHENYL	97		
2-FLUOROPHENOL	54		
4-BROMOFLUOROBENZENE	96		
NITROBENZENE-D5	76		
P-TERPHENYL-D14	105		
PHENOL-D5	47		
TOLUENE-D8	94		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-1

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 27% MOISTURE.

ANALYST

Bill Baller

SAMPLE NUMBER: 260354
DATE COLLECTED: 03/24/98
TIME COLLECTED: 11:50
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
2,4,5-T 2-ETHYLHEXYL ESTER	7600	UG/KG	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-1

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 27% MOISTURE.

ANALYST

Bill Battens

SAMPLE NUMBER: 260354

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 11:50

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	500.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	500.000	UG/KG	8270	
ANTHRACENE	34223	U <	500.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	500.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	500.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	500.000	UG/KG	8270	
BIS (2-CHLOROETHYL) ETHER	34271	U <	500.000	UG/KG	8270	
BIS (2-CHLOROETHOXY) METHANE	34281	U <	500.000	UG/KG	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34286	U <	500.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	500.000	UG/KG	8270	
CHRYSENE	34323	U <	500.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	500.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	500.000	UG/KG	8270	
FLUORANTHENE	34379	U <	500.000	UG/KG	8270	
FLUORENE	34384	U <	500.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	500.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	500.000	UG/KG	8270	
INDENO (123-CD) PYRENE	34406	U <	500.000	UG/KG	8270	
ISOPHORONE	34411	U <	500.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	500.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	500.000	UG/KG	8270	
NAPHTHALENE	34445	U <	500.000	UG/KG	8270	
NITROBENZENE	34450	U <	500.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	500.000	UG/KG	8270	
PHENANTHRENE	34464	U <	500.000	UG/KG	8270	
PYRENE	34472	U <	500.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	500.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529	U <	500.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	500.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	500.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	500.000	UG/KG	8270	

CM:

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 3-DICHLOROBENZENE	34569	U <	500.000	UG/KG	8270
1, 4-DICHLOROBENZENE	34574	U <	500.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	500.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	500.000	UG/KG	8270
2-NITROPHENOL	34594	U <	500.000	UG/KG	8270
DI-N-OCTYLPHthalate	34599	U <	500.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	500.000	UG/KG	8270
2, 4-DIMETHLYPHENOL	34609	U <	500.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	500.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	2500.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	500.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	500.000	UG/KG	8270
3, 3'-DICHLOROBENIZDINE	34634	U <	1000.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	500.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	500.000	UG/KG	8270
4-NITROPHENOL	34649	U <	2500.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	2500.000	UG/KG	8270
PHENOL	34695	U <	500.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	2500.000	UG/KG	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	500.000	UG/KG	8270
DI-N-BUTYLPHthalate	39112	U <	500.000	UG/KG	8270
HEXACHLOROBENZENE S	39701	U <	500.000	UG/KG	8270
HEXACHLOROBUTADIENE	39705	U <	500.000	UG/KG	8270
BENZYL ALCOHOL	75212	U <	500.000	UG/KG	8270
BENZOIC ACID	75315	U <	2500.000	UG/KG	8270
DIBENZOFURAN	76619	U <	500.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	500.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	500.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	2500.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	500.000	UG/KG	8270
2-NITROANALINE	77932	U <	2500.000	UG/KG	8270
3-NITROANALINE	77934	U <	2500.000	UG/KG	8270
4-NITROANALINE	77936	U <	2500.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305	U <	500.000	UG/KG	8270

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	6.000	UG/KG	8240
BROMOFORM	34290	U <	6.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	6.000	UG/KG	8240
CHLOROBENZENE	34304	U <	6.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	6.000	UG/KG	8240
CHLOROETHANE	34314	U <	12.000	UG/KG	8240
CHLOROFORM	34318	U <	6.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	6.000	UG/KG	8240
ETHYLBENZENE	34374	U <	6.000	UG/KG	8240
METHYL BROMIDE	34416	U <	12.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	12.000	UG/KG	8240
METHYLENE CHLORIDE	34426		27.000	UG/KG	8240
TETRACHLOROETHENE	34478	U <	6.000	UG/KG	8240
TOLUENE	34483	U <	6.000	UG/KG	8240
TRICHLOROETHENE	34487	U <	6.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	12.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	6.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	6.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	6.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	6.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	6.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	6.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	6.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	6.000	UG/KG	8240
2-CHLOROETHYLVINYL ETHER	34579	U <	12.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	6.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	6.000	UG/KG	8240
XYLENES	45510	U <	6.000	UG/KG	8240
ACETONE	75059		7.300	UG/KG	8240
METHYLETHYL KETONE	75078		7.200	UG/KG	8240
2-HEXANONE	75166	U <	12.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	12.000	UG/KG	8240
STRYENE	75192	U <	6.000	UG/KG	8240
VINYL ACETATE	75193	U <	12.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	6.000	UG/KG	8240

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-1

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 27% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260355
DATE COLLECTED: 03/24/98
TIME COLLECTED: 10:45
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

SURROGATE RECOVERIES		PAGE	1
COMPOUND	RECOVERY %		
1, 2-DICHLOROETHANE	82		
2, 4, 6-TRIBROMOPHENOL	104		
2-FLUOROBIPHENYL	119		
2-FLUOROPHENOL	107		
4-BROMOFLUOROBENZENE	92		
NITROBENZENE-D5	99		
P-TERPHENYL-D14	115		
PHENOL-D5	90		
TOLUENE-D8	98		

SOURCE: OHIO OIL COMAPNY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-2

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 10% MOISTURE.

ANALYST

Bill Battler

SAMPLE NUMBER: 260355
DATE COLLECTED: 03/24/98
TIME COLLECTED: 10:45
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
MOLECULAR SULFUR	12000	UG/KG	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-2

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 10% MOISTURE.

ANALYST

Bell Bitter

SAMPLE NUMBER: 260355
 AGENCY NUMBER:
 DATE COLLECTED: 03/24/98
 TIME COLLECTED: 10:45
 DATE RECEIVED: 03/25/98
 DATE COMPLETED: / /
 PWS ID:
 STATION:
 COLLECTED BY: KK
 DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
 REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
 KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CODE	CONCENTRATION IN SAMPLE * EXTRACTABLES *			METHOD	PAGE
		CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	900.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	900.000	UG/KG	8270	
ANTHRACENE	34223	U <	900.000	UG/KG	8270	
BENZO(B) FLUORANTHENE	34233	U <	900.000	UG/KG	8270	
BENZO(K) FLUORANTHENE	34245	U <	900.000	UG/KG	8270	
BENZO(A) PYRENE	34250	U <	900.000	UG/KG	8270	
BIS(2-CHLOROETHYL) ETHER	34271	U <	900.000	UG/KG	8270	
BIS(2-CHLOROETHOXY) METHANE	34281	U <	900.000	UG/KG	8270	
BIS(2-CHLOROISOPROPYL) ETHER	34286	U <	900.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	900.000	UG/KG	8270	
CHRYSENE	34323	U <	900.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	900.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	900.000	UG/KG	8270	
FLUORANTHENE	34379	U <	900.000	UG/KG	8270	
FLUORENE	34384	U <	900.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	900.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	900.000	UG/KG	8270	
INDENO(123-CD) PYRENE	34406	U <	900.000	UG/KG	8270	
ISOPHORONE	34411	U <	900.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	900.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	900.000	UG/KG	8270	
NAPHTHALENE	34445	U <	900.000	UG/KG	8270	
NITROBENZENE	34450	U <	900.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	900.000	UG/KG	8270	
PHENANTHRENE	34464	U <	900.000	UG/KG	8270	
PYRENE	34472	U <	900.000	UG/KG	8270	
BENZO(GHI) PERYLENE	34524	U <	900.000	UG/KG	8270	
BENZO(A) ANTHRACENE	34529	U <	900.000	UG/KG	8270	
1,2-DICHLOROBENZENE	34539	U <	900.000	UG/KG	8270	
1,2,4-TRICHLOROBENZENE	34554	U <	900.000	UG/KG	8270	
DIBENZO(AH) ANTHRACENE	34559	U <	900.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
1, 3-DICHLOROBENZENE	34569	U <	900.000	UG/KG	8270	
1, 4-DICHLOROBENZENE	34574	U <	900.000	UG/KG	8270	
2-CHLORONAPHTHALENE	34584	U <	900.000	UG/KG	8270	
2-CHLOROPHENOL	34589	U <	900.000	UG/KG	8270	
2-NITROPHENOL	34594	U <	900.000	UG/KG	8270	
DI-N-OCTYLPHthalate	34599	U <	900.000	UG/KG	8270	
2, 4-DICHLOROPHENOL	34604	U <	900.000	UG/KG	8270	
2, 4-DIMETHLYPHENOL	34609	U <	900.000	UG/KG	8270	
2, 4-DINITROTOLUENE S	34614	U <	900.000	UG/KG	8270	
2, 4-DINITROPHENOL	34619	U <	4500.000	UG/KG	8270	
2, 4, 6-TRICHLOROPHENOL	34624	U <	900.000	UG/KG	8270	
2, 6-DINITROTOLUENE	34629	U <	900.000	UG/KG	8270	
3, 3'-DICHLOROBENIZDINE	34634	U <	1800.000	UG/KG	8270	
4-BROMOPHENYLPHENYL ETHER	34639	U <	900.000	UG/KG	8270	
4-CHLOROPHENYLPHENYL ETHER	34644	U <	900.000	UG/KG	8270	
4-NITROPHENOL	34649	U <	4500.000	UG/KG	8270	
4, 6-DINITRO-O-CRESOL	34660	U <	4500.000	UG/KG	8270	
PHENOL	34695	U <	900.000	UG/KG	8270	
PENTACHLOROPHENOL	39061	U <	4500.000	UG/KG	8270	
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	900.000	UG/KG	8270	
DI-N-BUTYLPHthalate	39112	U <	900.000	UG/KG	8270	
HEXACHLOROBENZENE S	39701	U <	900.000	UG/KG	8270	
HEXACHLOROBUTADIENE	39705	U <	900.000	UG/KG	8270	
BENZYL ALCOHOL	75212	U <	900.000	UG/KG	8270	
BENZOIC ACID	75315	U <	4500.000	UG/KG	8270	
DIBENZOFURAN	76619	U <	900.000	UG/KG	8270	
2-METHYLPHENOL	77924	U <	900.000	UG/KG	8270	
4-METHYLPHENOL	77926	U <	900.000	UG/KG	8270	
2, 4, 5-TRICHLOROPHENOL	77928	U <	4500.000	UG/KG	8270	
4-CHLOROANALINE	77930	U <	900.000	UG/KG	8270	
2-NITROANALINE	77932	U <	4500.000	UG/KG	8270	
3-NITROANALINE	77934	U <	4500.000	UG/KG	8270	
4-NITROANALINE	77936	U <	4500.000	UG/KG	8270	
2-METHYLNAPHTHALENE	78305	U <	900.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	6.000	UG/KG	8240
BROMOFORM	34290	U <	6.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	6.000	UG/KG	8240
CHLOROBENZENE	34304	U <	6.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	6.000	UG/KG	8240
CHLOROETHANE	34314	U <	12.000	UG/KG	8240
CHLOROFORM	34318	U <	6.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	6.000	UG/KG	8240
ETHYLBENZENE	34374	U <	6.000	UG/KG	8240
METHYL BROMIDE	34416	U <	12.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	12.000	UG/KG	8240
METHYLENE CHLORIDE	34426		28.100	UG/KG	8240
TETRACHLOROETHENE	34478	U <	6.000	UG/KG	8240
TOLUENE	34483	U <	6.000	UG/KG	8240
TRICHLOROETHENE	34487	U <	6.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	12.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	6.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	6.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	6.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	6.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	6.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	6.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	6.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	6.000	UG/KG	8240
2-CHLOROETHYLVINYL ETHER	34579	U <	12.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	6.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	6.000	UG/KG	8240
XYLEMES	45510	J	3.200	UG/KG	8240
ACETONE	75059		10.400	UG/KG	8240
METHYLETHYL KETONE	75078		11.100	UG/KG	8240
2-HEXANONE	75166	U <	12.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	12.000	UG/KG	8240
STRYENE	75192	U <	6.000	UG/KG	8240
VINYL ACETATE	75193	U <	12.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	6.000	UG/KG	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMAPNY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-2

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 10% MOISTURE.

ANALYST

Bill Battley

SAMPLE NUMBER: 260356
DATE COLLECTED: 03/24/98
TIME COLLECTED: 10:05
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

SURROGATE RECOVERIES		PAGE	1
COMPOUND	RECOVERY %		
1, 2-DICHLOROETHANE	93		
2, 4, 6-TRIBROMOPHENOL	84		
2-FLUOROBIPHENYL	90		
2-FLUOROPHENOL	81		
4-BROMOFLUOROBENZENE	98		
NITROBENZENE-D5	74		
P-TFRPHENYL-D14	102		
PHENOL-D5	75		
TOLUENE-D8	97		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-3

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 18% MOISTURE.

ANALYST

Bill Battens

SAMPLE NUMBER: 260356
DATE COLLECTED: 03/24/98
TIME COLLECTED: 10:05
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-3

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 18% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260356

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 10:05

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	500.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	500.000	UG/KG	8270	
ANTHRACENE	34223	U <	500.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	500.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	500.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	500.000	UG/KG	8270	
BIS(2-CHLOROETHYL) ETHER	34271	U <	500.000	UG/KG	8270	
BIS(2-CHLOROETHOXY) METHANE	34281	U <	500.000	UG/KG	8270	
BIS(2-CHLOROISOPROPYL) ETHER	34286	U <	500.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	500.000	UG/KG	8270	
CHRYSENE	34323	U <	500.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	500.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	500.000	UG/KG	8270	
FLUORANTHENE	34379	U <	500.000	UG/KG	8270	
FLUORENE	34384	U <	500.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	500.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	500.000	UG/KG	8270	
INDENO(123-CD) PYRENE	34406	U <	500.000	UG/KG	8270	
ISOPHORONE	34411	U <	500.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	500.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	500.000	UG/KG	8270	
NAPHTHALENE	34445	U <	500.000	UG/KG	8270	
NITROBENZENE	34450	U <	500.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	500.000	UG/KG	8270	
PHENANTHRENE	34464	U <	500.000	UG/KG	8270	
PYRENE	34472	U <	500.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	500.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529	U <	500.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	500.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	500.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	500.000	UG/KG	8270	

CM:

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CONCENTRATION IN SAMPLE * EXTRACTABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
1, 3-DICHLOROBENZENE	34569	U <	500.000	UG/KG	8270	
1, 4-DICHLOROBENZENE	34574	U <	500.000	UG/KG	8270	
2-CHLORONAPHTHALENE	34584	U <	500.000	UG/KG	8270	
2-CHLOROPHENOL	34589	U <	500.000	UG/KG	8270	
2-NITROPHENOL	34594	U <	500.000	UG/KG	8270	
DI-N-OCTYLPHthalate	34599	U <	500.000	UG/KG	8270	
2, 4-DICHLOROPHENOL	34604	U <	500.000	UG/KG	8270	
2, 4-DIMETHYLPHENOL	34609	U <	500.000	UG/KG	8270	
2, 4-DINITROTOLUENE S	34614	U <	500.000	UG/KG	8270	
2, 4-DINITROPHENOL	34619	U <	2500.000	UG/KG	8270	
2, 4, 6-TRICHLOROPHENOL	34624	U <	500.000	UG/KG	8270	
2, 6-DINITROTOLUENE	34629	U <	500.000	UG/KG	8270	
3, 3'-DICHLOROBENZIDINE	34634	U <	1000.000	UG/KG	8270	
4-BROMOPHENYLPHENYL ETHER	34639	U <	500.000	UG/KG	8270	
4-CHLOROPHENYLPHENYL ETHER	34644	U <	500.000	UG/KG	8270	
4-NITROPHENOL	34649	U <	2500.000	UG/KG	8270	
4, 6-DINITRO-O-CRESOL	34660	U <	2500.000	UG/KG	8270	
PHENOL	34695	U <	500.000	UG/KG	8270	
PENTACHLOROPHENOL	39061	U <	2500.000	UG/KG	8270	
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	500.000	UG/KG	8270	
DI-N-BUTYLPHthalate	39112	U <	500.000	UG/KG	8270	
HEXACHLOROBENZENE S	39701	U <	500.000	UG/KG	8270	
HEXACHLOROBUTADIENE	39705	U <	500.000	UG/KG	8270	
BENZYL ALCOHOL	75212	U <	500.000	UG/KG	8270	
BENZOIC ACID	75315	U <	2500.000	UG/KG	8270	
DIBENZOFURAN	76619	U <	500.000	UG/KG	8270	
2-METHYLPHENOL	77924	U <	500.000	UG/KG	8270	
4-METHYLPHENOL	77926	U <	500.000	UG/KG	8270	
2, 4, 5-TRICHLOROPHENOL	77928	U <	2500.000	UG/KG	8270	
4-CHLOROANALINE	77930	U <	500.000	UG/KG	8270	
2-NITROANALINE	77932	U <	2500.000	UG/KG	8270	
3-NITROANALINE	77934	U <	2500.000	UG/KG	8270	
4-NITROANALINE	77936	U <	2500.000	UG/KG	8270	
2-METHYLNAPHTHALENE	78305	U <	500.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * PURGEABLES *					PAGE	3
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
BENZENE	34237	U <	6.000	UG/KG	8240	
BROMOFORM	34290	U <	6.000	UG/KG	8240	
CARBON TETRACHLORIDE	34299	U <	6.000	UG/KG	8240	
CHLOROBENZENE	34304	U <	6.000	UG/KG	8240	
DIBROMOCHLOROMETHANE	34309	U <	6.000	UG/KG	8240	
CHLOROETHANE	34314	U <	12.000	UG/KG	8240	
CHLOROFORM	34318	U <	6.000	UG/KG	8240	
DICHLOROBROMOMETHANE	34330	U <	6.000	UG/KG	8240	
ETHYLBENZENE	34374	U <	6.000	UG/KG	8240	
METHYL BROMIDE	34416	U <	12.000	UG/KG	8240	
METHYL CHLORIDE	34421	U <	12.000	UG/KG	8240	
METHYLENE CHLORIDE	34426	J	2.400	UG/KG	8240	
TETRACHLOROETHENE	34478	U <	6.000	UG/KG	8240	
TOLUENE	34483	U <	6.000	UG/KG	8240	
TRICHLOROETHENE	34487	U <	6.000	UG/KG	8240	
VINYL CHLORIDE	34495	U <	12.000	UG/KG	8240	
1,1-DICHLOROETHANE	34499	U <	6.000	UG/KG	8240	
1,1-DICHLOROETHENE	34504	U <	6.000	UG/KG	8240	
1,1,1-TRICHLOROETHANE	34509	U <	6.000	UG/KG	8240	
1,1,2-TRICHLOROETHANE	34514	U <	6.000	UG/KG	8240	
1,1,2,2-TETRACHLOROETHANE	34519	U <	6.000	UG/KG	8240	
1,2-DICHLOROETHANE	34534	U <	6.000	UG/KG	8240	
1,2-DICHLOROPROPANE	34544	U <	6.000	UG/KG	8240	
TRANS-1,2-DICHLOROETHENE	34549	U <	6.000	UG/KG	8240	
2-CHLOROETHYL VINYL ETHER	34579	U <	12.000	UG/KG	8240	
TRANS-1,3-DICHLOROPROPENE	34697	U <	6.000	UG/KG	8240	
CIS-1,3-DICHLOROPROPENE	34702	U <	6.000	UG/KG	8240	
XYLEMES	45510	U <	6.000	UG/KG	8240	
ACETONE	75059	J	5.300	UG/KG	8240	
METHYLETHYL KETONE	75078	J	3.600	UG/KG	8240	
2-HEXANONE	75166	U <	12.000	UG/KG	8240	
METHYLISOBUTYL KETONE	75169	U <	12.000	UG/KG	8240	
STYRENE	75192	U <	6.000	UG/KG	8240	
VINYL ACETATE	75193	U <	12.000	UG/KG	8240	
CARBON DISULFIDE	77938	U <	6.000	UG/KG	8240	

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-3

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 18% MOISTURE.

ANALYST



SAMPLE NUMBER: 260357
DATE COLLECTED: 03/24/98
TIME COLLECTED: 12:20
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

SURROGATE RECOVERIES		PAGE	1
COMPOUND	RECOVERY %		
1, 2-DICHLOROETHANE	96		
2, 4, 6-TRIBROMOPHENOL	99		
2-FLUOROBIPHENYL	89		
2-FLUOROPHENOL	73		
4-BROMOFLUOROBENZENE	100		
NITROBENZENE-D5	71		
P-TERPHENYL-D14	89		
PHENOL-D5	71		
TOLUENE-D8	99		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-4

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 14% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260357
DATE COLLECTED: 03/24/98
TIME COLLECTED: 12:20
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-4

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 14% MOISTURE.

ANALYST

Bell Ballou

SAMPLE NUMBER: 260357

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 12:20

DATE RECEIVED: 03/25/98

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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	500.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	500.000	UG/KG	8270	
ANTHRACENE	34223	U <	500.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	500.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	500.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	500.000	UG/KG	8270	
BIS(2-CHLOROETHYL) ETHER	34271	U <	500.000	UG/KG	8270	
BIS(2-CHLOROETHOXY) METHANE	34281	U <	500.000	UG/KG	8270	
BIS(2-CHLOROISOPROPYL) ETHER	34286	U <	500.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	500.000	UG/KG	8270	
CHRYSENE	34323	U <	500.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	500.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	500.000	UG/KG	8270	
FLUORANTHENE	34379	U <	500.000	UG/KG	8270	
FLUORENE	34384	U <	500.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	500.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	500.000	UG/KG	8270	
INDENO(123-CD) PYRENE	34406	U <	500.000	UG/KG	8270	
ISOPHORONE	34411	U <	500.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	500.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	500.000	UG/KG	8270	
NAPHTHALENE	34445	U <	500.000	UG/KG	8270	
NITROBENZENE	34450	U <	500.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	500.000	UG/KG	8270	
PHENANTHRENE	34464	U <	500.000	UG/KG	8270	
PYRENE	34472	U <	500.000	UG/KG	8270	
BENZO(GHI) PERYLENE	34524	U <	500.000	UG/KG	8270	
BENZO(A) ANTHRACENE	34529	U <	500.000	UG/KG	8270	
1,2-DICHLOROBENZENE	34539	U <	500.000	UG/KG	8270	
1,2,4-TRICHLOROBENZENE	34554	U <	500.000	UG/KG	8270	
DIBENZO(AH) ANTHRACENE	34559	U <	500.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 3-DICHLOROBENZENE	34569	U <	500.000	UG/KG	8270
1, 4-DICHLOROBENZENE	34574	U <	500.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	500.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	500.000	UG/KG	8270
2-NITROPHENOL	34594	U <	500.000	UG/KG	8270
DI-N-OCTYLPHthalATE	34599	U <	500.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	500.000	UG/KG	8270
2, 4-DIMETHLYPHENOL	34609	U <	500.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	500.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	2500.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	500.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	500.000	UG/KG	8270
3, 3'-DICHLOROBENIZDINE	34634	U <	1000.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	500.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	500.000	UG/KG	8270
4-NITROPHENOL	34649	U <	2500.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	2500.000	UG/KG	8270
PHENOL	34695	U <	500.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	2500.000	UG/KG	8270
BIS (2-ETHYLHEXYL) PHTHALATE	39102	U <	500.000	UG/KG	8270
DI-N-BUTYLPHthalATE	39112	U <	500.000	UG/KG	8270
HEXACHLOROBENZENE S	39701	U <	500.000	UG/KG	8270
HEXACHLOROBUTADIENE	39705	U <	500.000	UG/KG	8270
BENZYL ALCOHOL	75212	U <	500.000	UG/KG	8270
BENZOIC ACID	75315	U <	2500.000	UG/KG	8270
DIBENZOFURAN	76619	U <	500.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	500.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	500.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	2500.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	500.000	UG/KG	8270
2-NITROANALINE	77932	U <	2500.000	UG/KG	8270
3-NITROANALINE	77934	U <	2500.000	UG/KG	8270
4-NITROANALINE	77936	U <	2500.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305	U <	500.000	UG/KG	8270

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *					PAGE	3
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
BENZENE	34237	J	2.870	UG/KG	8240	
BROMOFORM	34290	U <	6.000	UG/KG	8240	
CARBON TETRACHLORIDE	34299	U <	6.000	UG/KG	8240	
CHLOROBENZENE	34304	U <	6.000	UG/KG	8240	
DIBROMOCHLOROMETHANE	34309	U <	6.000	UG/KG	8240	
CHLOROETHANE	34314	U <	12.000	UG/KG	8240	
CHLOROFORM	34318	U <	6.000	UG/KG	8240	
DICHLOROBROMOMETHANE	34330	U <	6.000	UG/KG	8240	
ETHYLBENZENE	34374	U <	6.000	UG/KG	8240	
METHYL BROMIDE	34416	U <	12.000	UG/KG	8240	
METHYL CHLORIDE	34421	U <	12.000	UG/KG	8240	
METHYLENE CHLORIDE	34426	U <	6.000	UG/KG	8240	
TETRACHLOROETHENE	34478	U <	6.000	UG/KG	8240	
TOLUENE	34483	U <	6.000	UG/KG	8240	
TRICHLOROETHENE	34487	U <	6.000	UG/KG	8240	
VINYL CHLORIDE	34495	U <	12.000	UG/KG	8240	
1,1-DICHLOROETHANE	34499	U <	6.000	UG/KG	8240	
1,1-DICHLOROETHENE	34504	U <	6.000	UG/KG	8240	
1,1,1-TRICHLOROETHANE	34509	U <	6.000	UG/KG	8240	
1,1,2-TRICHLOROETHANE	34514	U <	6.000	UG/KG	8240	
1,1,2,2-TETRACHLOROETHANE	34519	U <	6.000	UG/KG	8240	
1,2-DICHLOROETHANE	34534	U <	6.000	UG/KG	8240	
1,2-DICHLOROPROPANE	34544	U <	6.000	UG/KG	8240	
TRANS-1,2-DICHLOROETHENE	34549	U <	6.000	UG/KG	8240	
2-CHLOROETHYL VINYL ETHER	34579	U <	12.000	UG/KG	8240	
TRANS-1,3-DICHLOROPROPENE	34697	U <	6.000	UG/KG	8240	
CIS-1,3-DICHLOROPROPENE	34702	U <	6.000	UG/KG	8240	
XYLENES	45510	U	7.000	UG/KG	8240	
ACETONE	75059	U <	12.000	UG/KG	8240	
METHYLETHYL KETONE	75078	U <	12.000	UG/KG	8240	
2-HEXANONE	75166	U <	12.000	UG/KG	8240	
METHYLISOBUTYL KETONE	75169	U <	12.000	UG/KG	8240	
STRYENE	75192	U <	6.000	UG/KG	8240	
VINYL ACETATE	75193	U <	12.000	UG/KG	8240	
CARBON DISULFIDE	77938	U <	6.000	UG/KG	8240	

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-4

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 14% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260358
DATE COLLECTED: 03/24/98
TIME COLLECTED: 12:30
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

SURROGATE RECOVERIES		PAGE	1
COMPOUND	RECOVERY %		
1, 2-DICHLOROETHANE	97		
2, 4, 6-TRIBROMOPHENOL	113		
2-FLUOROBIPHENYL	121		
2-FLUOROPHENOL	116		
4-BROMOFLUOROBENZENE	100		
NITROBENZENE-D5	106		
P-TERPHENYL-D14	133		
PHENOL-D5	109		
TOLUENE-D8	100		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-5

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 19% MOISTURE.

ANALYST

Bill Battag

SAMPLE NUMBER: 260358
DATE COLLECTED: 03/24/98
TIME COLLECTED: 12:30
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH			PAGE	1
COMPOUND		VALUE	UNIT	
UNKNOWN HYDROCARBON	SCAN #3209 (SEMIVOL)	6300	UG/KG	
UNKNOWN HYDROCARBON	SCAN #3629 (SEMIVOL)	5700	UG/KG	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-5

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 19% MOISTURE.

ANALYST

BILL BATTERS

SAMPLE NUMBER: 260358

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 12:30

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	500.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	500.000	UG/KG	8270	
ANTHRACENE	34223	U <	500.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	500.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	500.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	500.000	UG/KG	8270	
BIS (2-CHLOROETHYL) ETHER	34271	U <	500.000	UG/KG	8270	
BIS (2-CHLOROETHOXY) METHANE	34281	U <	500.000	UG/KG	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34286	U <	500.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	500.000	UG/KG	8270	
CHRYSENE	34323	U <	500.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	500.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	500.000	UG/KG	8270	
FLUORANTHENE	34379	U <	500.000	UG/KG	8270	
FLUORENE	34384	U <	500.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	500.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	500.000	UG/KG	8270	
INDENO (123-CD) PYRENE	34406	U <	500.000	UG/KG	8270	
ISOPHORONE	34411	U <	500.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	500.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	500.000	UG/KG	8270	
NAPHTHALENE	34445	U <	500.000	UG/KG	8270	
NITROBENZENE	34450	U <	500.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	500.000	UG/KG	8270	
PHENANTHRENE	34464	U <	500.000	UG/KG	8270	
PYRENE	34472	U <	500.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	500.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529	U <	500.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	500.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	500.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	500.000	UG/KG	8270	

CM:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value.

B - Indicates the analyte is found in the associated blank as well as in the sample.

R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 3-DICHLOROBENZENE	34569	U <	500.000	UG/KG	8270
1, 4-DICHLOROBENZENE	34574	U <	500.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	500.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	500.000	UG/KG	8270
2-NITROPHENOL	34594	U <	500.000	UG/KG	8270
DI-N-OCTYLPHthalate	34599	U <	500.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	500.000	UG/KG	8270
2, 4-DIMETHLYPHENOL	34609	U <	500.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	500.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	2500.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	500.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	500.000	UG/KG	8270
3, 3'-DICHLOROBENIZDINE	34634	U <	1000.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	500.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	500.000	UG/KG	8270
4-NITROPHENOL	34649	U <	2500.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	2500.000	UG/KG	8270
PHENOL	34695	U <	500.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	2500.000	UG/KG	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	500.000	UG/KG	8270
DI-N-BUTYLPHthalate	39112	U <	500.000	UG/KG	8270
HEXACHLOROBENZENE S	39701	U <	500.000	UG/KG	8270
HEXACHLOROBUTADIENE	39705	U <	500.000	UG/KG	8270
BENZYL ALCOHOL	75212	U <	500.000	UG/KG	8270
BENZOIC ACID	75315	U <	2500.000	UG/KG	8270
DIBENZOFURAN	76619	U <	500.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	500.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	500.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	2500.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	500.000	UG/KG	8270
2-NITROANALINE	77932	U <	2500.000	UG/KG	8270
3-NITROANALINE	77934	U <	2500.000	UG/KG	8270
4-NITROANALINE	77936	U <	2500.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305	U <	500.000	UG/KG	8270

CM:

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *					PAGE	3
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
BENZENE	34237	U <	6.000	UG/KG	8240	
BROMOFORM	34290	U <	6.000	UG/KG	8240	
CARBON TETRACHLORIDE	34299	U <	6.000	UG/KG	8240	
CHLOROBENZENE	34304	U <	6.000	UG/KG	8240	
DIBROMOCHLOROMETHANE	34309	U <	6.000	UG/KG	8240	
CHLOROETHANE	34314	U <	12.000	UG/KG	8240	
CHLOROFORM	34318	U <	6.000	UG/KG	8240	
DICHLOROBROMOMETHANE	34330	U <	6.000	UG/KG	8240	
ETHYLBENZENE	34374	U <	6.000	UG/KG	8240	
METHYL BROMIDE	34416	U <	12.000	UG/KG	8240	
METHYL CHLORIDE	34421	U <	12.000	UG/KG	8240	
METHYLENE CHLORIDE	34426	J	2.500	UG/KG	8240	
TETRACHLOROETHENE	34478	U <	6.000	UG/KG	8240	
TOLUENE	34483	U <	6.000	UG/KG	8240	
TRICHLOROETHENE	34487	U <	6.000	UG/KG	8240	
VINYL CHLORIDE	34495	U <	12.000	UG/KG	8240	
1,1-DICHLOROETHANE	34499	U <	6.000	UG/KG	8240	
1,1-DICHLOROETHENE	34504	U <	6.000	UG/KG	8240	
1,1,1-TRICHLOROETHANE	34509	U <	6.000	UG/KG	8240	
1,1,2-TRICHLOROETHANE	34514	U <	6.000	UG/KG	8240	
1,1,2,2-TETRACHLOROETHANE	34519	U <	6.000	UG/KG	8240	
1,2-DICHLOROETHANE	34534	U <	6.000	UG/KG	8240	
1,2-DICHLOROPROPANE	34544	U <	6.000	UG/KG	8240	
TRANS-1,2-DICHLOROETHENE	34549	U <	6.000	UG/KG	8240	
2-CHLOROETHYL VINYL ETHER	34579	U <	12.000	UG/KG	8240	
TRANS-1,3-DICHLOROPROPENE	34697	U <	6.000	UG/KG	8240	
CIS-1,3-DICHLOROPROPENE	34702	U <	6.000	UG/KG	8240	
XYLENES	45510	U <	6.000	UG/KG	8240	
ACETONE	75059	J	7.600	UG/KG	8240	
METHYLETHYL KETONE	75078	U <	12.000	UG/KG	8240	
2-HEXANONE	75166	U <	12.000	UG/KG	8240	
METHYLISOBUTYL KETONE	75169	U <	12.000	UG/KG	8240	
STRYENE	75192	U <	6.000	UG/KG	8240	
VINYL ACETATE	75193	U <	12.000	UG/KG	8240	
CARBON DISULFIDE	77938	U <	6.000	UG/KG	8240	

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
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SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-5

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 19% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260359
DATE COLLECTED: 03/24/98
TIME COLLECTED: 16:30
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

SURROGATE RECOVERIES		PAGE 1
COMPOUND	RECOVERY %	
1, 2-DICHLOROETHANE	97	
2, 4, 6-TRIBROMOPHENOL	49	
2-FLUOROBIPHENYL	88	
2-FLUOROPHENOL	49	
4-BROMOFLUOROBENZENE	99	
NITROBENZENE-D5	72	
P-TERPHENYL-D14	111	
PHENOL-D5	44	
TOLUENE-D8	100	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-6

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 40% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260359
DATE COLLECTED: 03/24/98
TIME COLLECTED: 16:30
DATE RECEIVED: 03/25/98
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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
UNKNOWN HYDROCARBON SCAN #3640 (SEMIVOL)	6100	UG/KG	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-6

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 40% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260359

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REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

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PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	500.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	500.000	UG/KG	8270	
ANTHRACENE	34223	U <	500.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	500.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	500.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	500.000	UG/KG	8270	
BIS (2-CHLOROETHYL) ETHER	34271	U <	500.000	UG/KG	8270	
BIS (2-CHLOROETHOXY) METHANE	34281	U <	500.000	UG/KG	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34286	U <	500.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	500.000	UG/KG	8270	
CHRYSENE	34323	U <	500.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	500.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	500.000	UG/KG	8270	
FLUORANTHENE	34379	U <	500.000	UG/KG	8270	
FLUORENE	34384	U <	500.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	500.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	500.000	UG/KG	8270	
INDENO (123-CD) PYRENE	34406	U <	500.000	UG/KG	8270	
ISOPHORONE	34411	U <	500.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	500.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	500.000	UG/KG	8270	
NAPHTHALENE	34445	U <	500.000	UG/KG	8270	
NITROBENZENE	34450	U <	500.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	500.000	UG/KG	8270	
PHENANTHRENE	34464	U <	500.000	UG/KG	8270	
PYRENE	34472	U <	500.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	500.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529	U <	500.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	500.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	500.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	500.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
1, 3-DICHLOROBENZENE	34569	U <	500.000	UG/KG	8270	
1, 4-DICHLOROBENZENE	34574	U <	500.000	UG/KG	8270	
2-CHLORONAPHTHALENE	34584	U <	500.000	UG/KG	8270	
2-CHLOROPHENOL	34589	U <	500.000	UG/KG	8270	
2-NITROPHENOL	34594	U <	500.000	UG/KG	8270	
DI-N-OCTYLPHthalate	34599	U <	500.000	UG/KG	8270	
2, 4-DICHLOROPHENOL	34604	U <	500.000	UG/KG	8270	
2, 4-DIMETHYLPHENOL	34609	U <	500.000	UG/KG	8270	
2, 4-DINITROTOLUENE S	34614	U <	500.000	UG/KG	8270	
2, 4-DINITROPHENOL	34619	U <	2500.000	UG/KG	8270	
2, 4, 6-TRICHLOROPHENOL	34624	U <	500.000	UG/KG	8270	
2, 6-DINITROTOLUENE	34629	U <	500.000	UG/KG	8270	
3, 3'-DICHLOROBENZIDINE	34634	U <	1000.000	UG/KG	8270	
4-BROMOPHENYLPHENYL ETHER	34639	U <	500.000	UG/KG	8270	
4-CHLOROPHENYLPHENYL ETHER	34644	U <	500.000	UG/KG	8270	
4-NITROPHENOL	34649	U <	2500.000	UG/KG	8270	
4, 6-DINITRO-O-CRESOL	34660	U <	2500.000	UG/KG	8270	
PHENOL	34695	U <	500.000	UG/KG	8270	
PENTACHLOROPHENOL	39061	U <	2500.000	UG/KG	8270	
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	500.000	UG/KG	8270	
DI-N-BUTYLPHthalate	39112	U <	500.000	UG/KG	8270	
HEXACHLOROBENZENE S	39701	U <	500.000	UG/KG	8270	
HEXACHLOROBUTADIENE	39705	U <	500.000	UG/KG	8270	
BENZYL ALCOHOL	75212	U <	500.000	UG/KG	8270	
BENZOIC ACID	75315	U <	2500.000	UG/KG	8270	
DIBENZOFURAN	76619	U <	500.000	UG/KG	8270	
2-METHYLPHENOL	77924	U <	500.000	UG/KG	8270	
4-METHYLPHENOL	77926	U <	500.000	UG/KG	8270	
2, 4, 5-TRICHLOROPHENOL	77928	U <	2500.000	UG/KG	8270	
4-CHLOROANALINE	77930	U <	500.000	UG/KG	8270	
2-NITROANALINE	77932	U <	2500.000	UG/KG	8270	
3-NITROANALINE	77934	U <	2500.000	UG/KG	8270	
4-NITROANALINE	77936	U <	2500.000	UG/KG	8270	
2-METHYLNAPHTHALENE	78305	U <	500.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * PURGEABLES *					PAGE	3
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
BENZENE	34237	U <	7.000	UG/KG	8240	
BROMOFORM	34290	U <	7.000	UG/KG	8240	
CARBON TETRACHLORIDE	34299	U <	7.000	UG/KG	8240	
CHLOROBENZENE	34304	U <	7.000	UG/KG	8240	
DIBROMOCHLOROMETHANE	34309	U <	7.000	UG/KG	8240	
CHLOROETHANE	34314	U <	14.000	UG/KG	8240	
CHLOROFORM	34318	U <	7.000	UG/KG	8240	
DICHLOROBROMOMETHANE	34330	U <	7.000	UG/KG	8240	
ETHYLBENZENE	34374	U <	7.000	UG/KG	8240	
METHYL BROMIDE	34416	U <	14.000	UG/KG	8240	
METHYL CHLORIDE	34421	U <	14.000	UG/KG	8240	
METHYLENE CHLORIDE	34426	J	2.800	UG/KG	8240	
TETRACHLOROETHENE	34478	U <	7.000	UG/KG	8240	
TOLUENE	34483	U <	7.000	UG/KG	8240	
TRICHLOROETHENE	34487	U <	7.000	UG/KG	8240	
VINYL CHLORIDE	34495	U <	14.000	UG/KG	8240	
1,1-DICHLOROETHANE	34499	U <	7.000	UG/KG	8240	
1,1-DICHLOROETHENE	34504	U <	7.000	UG/KG	8240	
1,1,1-TRICHLOROETHANE	34509	U <	7.000	UG/KG	8240	
1,1,2-TRICHLOROETHANE	34514	U <	7.000	UG/KG	8240	
1,1,2,2-TETRACHLOROETHANE	34519	U <	7.000	UG/KG	8240	
1,2-DICHLOROETHANE	34534	U <	7.000	UG/KG	8240	
1,2-DICHLOROPROPANE	34544	U <	7.000	UG/KG	8240	
TRANS-1,2-DICHLOROETHENE	34549	U <	7.000	UG/KG	8240	
2-CHLOROETHYLVINYL ETHER	34579	U <	14.000	UG/KG	8240	
TRANS-1,3-DICHLOROPROPENE	34697	U <	7.000	UG/KG	8240	
CIS-1,3-DICHLOROPROPENE	34702	U <	7.000	UG/KG	8240	
XYLENES	45510	U <	7.000	UG/KG	8240	
ACETONE	75059	J	8.600	UG/KG	8240	
METHYLETHYL KETONE	75078	J	6.400	UG/KG	8240	
2-HEXANONE	75166	U <	14.000	UG/KG	8240	
METHYLISOBUTYL KETONE	75169	U <	14.000	UG/KG	8240	
STRYENE	75192	U <	7.000	UG/KG	8240	
VINYL ACETATE	75193	U <	14.000	UG/KG	8240	
CARBON DISULFIDE	77938	U <	7.000	UG/KG	8240	

CM:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value.

B - Indicates the analyte is found in the associated blank as well as in the sample.

R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-6

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 40% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260360
DATE COLLECTED: 03/24/98
TIME COLLECTED: 10:45
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

SURROGATE RECOVERIES	
COMPOUND	RECOVERY %
1,2-DICHLOROETHANE	96
2,4,6-TRIBROMOPHENOL	113
2-FLUOROBIPHENYL	106
2-FLUOROPHENOL	95
4-BROMOFLUOROBENZENE	95
NITROBENZENE-D5	88
P-TERPHENYL-D14	114
PHENOL-D5	82
TOLUENE-D8	102

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-7

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 10% MOISTURE.

ANALYST

Bill Batten

SAMPLE NUMBER: 260360
DATE COLLECTED: 03/24/98
TIME COLLECTED: 10:45
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-7

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 10% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260360

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 10:45

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	1100.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	1100.000	UG/KG	8270	
ANTHRACENE	34223	U <	1100.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	1100.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	1100.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	1100.000	UG/KG	8270	
BIS(2-CHLOROETHYL) ETHER	34271	U <	1100.000	UG/KG	8270	
BIS(2-CHLOROETHOXY) METHANE	34281	U <	1100.000	UG/KG	8270	
BIS(2-CHLOROISOPROPYL) ETHER	34286	U <	1100.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	1100.000	UG/KG	8270	
CHRYSENE	34323	U <	1100.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	1100.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	1100.000	UG/KG	8270	
FLUORANTHENE	34379	U <	1100.000	UG/KG	8270	
FLUCRENE	34384	U <	1100.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	1100.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	1100.000	UG/KG	8270	
INDENO(123-CD) PYRENE	34406	U <	1100.000	UG/KG	8270	
ISOPHORONE	34411	U <	1100.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	1100.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	1100.000	UG/KG	8270	
NAPHTHALENE	34445	U <	1100.000	UG/KG	8270	
NITROBENZENE	34450	U <	1100.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	1100.000	UG/KG	8270	
PHENANTHRENE	34464	U <	1100.000	UG/KG	8270	
PYRENE	34472	U <	1100.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	1100.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529	U <	1100.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	1100.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	1100.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	1100.000	UG/KG	8270	

CM:

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 3-DICHLOROBENZENE	34569	U <	1100.000	UG/KG	8270
1, 4-DICHLOROBENZENE	34574	U <	1100.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	1100.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	1100.000	UG/KG	8270
2-NITROPHENOL	34594	U <	1100.000	UG/KG	8270
DI-N-OCTYLPHthalate	34599	U <	1100.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	1100.000	UG/KG	8270
2, 4-DIMETHLYPHENOL	34609	U <	1100.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	1100.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	5500.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	1100.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	1100.000	UG/KG	8270
3, 3'-DICHLOROBENIZDINE	34634	U <	2200.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	1100.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	1100.000	UG/KG	8270
4-NITROPHENOL	34649	U <	5500.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	5500.000	UG/KG	8270
PHENOL	34695	U <	1100.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	5500.000	UG/KG	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	1100.000	UG/KG	8270
DI-N-BUTYLPHthalate	39112	U <	1100.000	UG/KG	8270
HEXACHLOROBENZENE S	39701	U <	1100.000	UG/KG	8270
HEXACHLOROBUTADIENE	39705	U <	1100.000	UG/KG	8270
BENZYL ALCOHOL	75212	U <	1100.000	UG/KG	8270
BENZOIC ACID	75315	U <	5500.000	UG/KG	8270
DIBENZOFURAN	76619	U <	1100.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	1100.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	1100.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	5500.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	1100.000	UG/KG	8270
2-NITROANALINE	77932	U <	5500.000	UG/KG	8270
3-NITROANALINE	77934	U <	5500.000	UG/KG	8270
4-NITROANALINE	77936	U <	5500.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305	U <	1100.000	UG/KG	8270

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	6.000	UG/KG	8240
BROMOFORM	34290	U <	6.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	6.000	UG/KG	8240
CHLOROBENZENE	34304	U <	6.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	6.000	UG/KG	8240
CHLOROETHANE	34314	U <	12.000	UG/KG	8240
CHLOROFORM	34318	U <	6.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	6.000	UG/KG	8240
ETHYLBENZENE	34374	U <	6.000	UG/KG	8240
METHYL BROMIDE	34416	U <	12.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	12.000	UG/KG	8240
METHYLENE CHLORIDE	34426	J	2.500	UG/KG	8240
TETRACHLOROETHENE	34478	U <	6.000	UG/KG	8240
TOLUENE	34483	U <	6.000	UG/KG	8240
TRICHLOROETHENE	34487	U <	6.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	12.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	6.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	6.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	6.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	6.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	6.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	6.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	6.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	6.000	UG/KG	8240
2-CHLOROETHYLVINYL ETHER	34579	U <	12.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	6.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	6.000	UG/KG	8240
XYLENES	45510	J	5.000	UG/KG	8240
ACETONE	75059	J	5.500	UG/KG	8240
METHYLETHYL KETONE	75078	U <	12.000	UG/KG	8240
2-HEXANONE	75166	U <	12.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	12.000	UG/KG	8240
STRYENE	75192	U <	6.000	UG/KG	8240
VINYL ACETATE	75193	U <	12.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	6.000	UG/KG	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-SS-7

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 10% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260361
DATE COLLECTED: 03/24/98
TIME COLLECTED: 15:50
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

SURROGATE RECOVERIES		PAGE	1
COMPOUND	RECOVERY %		
1, 2-DICHLOROETHANE	99		
2, 4, 6-TRIBROMOPHENOL	21		
2-FLUOROBIPHENYL	38		
2-FLUOROPHENOL	18		
4-BROMOFLUOROBENZENE	88		
NITROBENZENE-D5	27		
P-TERPHENYL-D14	40		
PHENOL-D5	17		
TOLUENE-D8	106		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-1

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 29% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260361
DATE COLLECTED: 03/24/98
TIME COLLECTED: 15:50
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
1, 6, 7-TRIMETHYLNAPHTHALENE	24000	UG/KG	
1, 7-DIMETHYLNAPHTHALENE	29000	UG/KG	
1-METHYLNAPHTHALENE	35000	UG/KG	
2, 6-DIMETHYLNAPHTHALENE	21000	UG/KG	
2-METHYL PYRENE	23000	UG/KG	
3-METHYLHEXADECANE	45000	UG/KG	
9-OCTYLHEPTADECANE	58000	UG/KG	
DOCOSANE	77000	UG/KG	
EICOSANE	35000	UG/KG	
HENEICOSANE	41000	UG/KG	
HEPTADECANE	32000	UG/KG	
HEXACOSANE	38000	UG/KG	
HEXADECANE	51000	UG/KG	
NONADECANE	35000	UG/KG	
PENTACOSANE	45000	UG/KG	
TETRADECANE	21000	UG/KG	
TRICOSANE	61000	UG/KG	
TRIDECANE	36000	UG/KG	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-1

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 29% MOISTURE.

ANALYST

Bell Batter

SAMPLE NUMBER: 260361

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	1100.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	1100.000	UG/KG	8270	
ANTHRACENE	34223		19000.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	1100.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	1100.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	1100.000	UG/KG	8270	
BIS (2-CHLOROETHYL) ETHER	34271	U <	1100.000	UG/KG	8270	
BIS (2-CHLOROETHOXY) METHANE	34281	U <	1100.000	UG/KG	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34286	U <	1100.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	1100.000	UG/KG	8270	
CHRYSENE	34323		30000.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	1100.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	1100.000	UG/KG	8270	
FLUORANTHENE	34379	U <	1100.000	UG/KG	8270	
FLUORENE	34384	U <	1100.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	1100.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	1100.000	UG/KG	8270	
INDENO (123-CD) PYRENE	34406	U <	1100.000	UG/KG	8270	
ISOPHORONE	34411	U <	1100.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	1100.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	1100.000	UG/KG	8270	
NAPHTHALENE	34445	U <	1100.000	UG/KG	8270	
NITROBENZENE	34450	U <	1100.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	1100.000	UG/KG	8270	
PHENANTHRENE	34464		99000.000	UG/KG	8270	
PYRENE	34472		79000.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524		9900.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529		13000.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	1100.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	1100.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	1100.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
1, 3-DICHLOROBENZENE	34569	U <	1100.000	UG/KG	8270	
1, 4-DICHLOROBENZENE	34574	U <	1100.000	UG/KG	8270	
2-CHLORONAPHTHALENE	34584	U <	1100.000	UG/KG	8270	
2-CHLOROPHENOL	34589	U <	1100.000	UG/KG	8270	
2-NITROPHENOL	34594	U <	1100.000	UG/KG	8270	
DI-N-OCTYLPHthalATE	34599	U <	1100.000	UG/KG	8270	
2, 4-DICHLOROPHENOL	34604	U <	1100.000	UG/KG	8270	
2, 4-DIMETHYLPHENOL	34609	U <	1100.000	UG/KG	8270	
2, 4-DINITROTOLUENE S	34614	U <	1100.000	UG/KG	8270	
2, 4-DINITROPHENOL	34619	U <	5500.000	UG/KG	8270	
2, 4, 6-TRICHLOROPHENOL	34624	U <	1100.000	UG/KG	8270	
2, 6-DINITROTOLUENE	34629	U <	1100.000	UG/KG	8270	
3, 3'-DICHLOROBENZIDINE	34634	U <	2200.000	UG/KG	8270	
4-BROMOPHENYLPHENYL ETHER	34639	U <	1100.000	UG/KG	8270	
4-CHLOROPHENYLPHENYL ETHER	34644	U <	1100.000	UG/KG	8270	
4-NITROPHENOL	34649	U <	5500.000	UG/KG	8270	
4, 6-DINITRO-O-CRESOL	34660	U <	5500.000	UG/KG	8270	
PHENOL	34695	U <	1100.000	UG/KG	8270	
PENTACHLOROPHENOL	39061	U <	5500.000	UG/KG	8270	
BIS (2-ETHYLHEXYL) PHTHALATE	39102	U <	1100.000	UG/KG	8270	
DI-N-BUTYLPHthalATE	39112	U <	1100.000	UG/KG	8270	
HEXACHLOROBENZENE S	39701	U <	1100.000	UG/KG	8270	
HEXACHLOROBUTADIENE	39705	U <	1100.000	UG/KG	8270	
BENZYL ALCOHOL	75212	U <	1100.000	UG/KG	8270	
BENZOIC ACID	75315	U <	5500.000	UG/KG	8270	
DIBENZOFURAN	76619	U <	1100.000	UG/KG	8270	
2-METHYLPHENOL	77924	U <	1100.000	UG/KG	8270	
4-METHYLPHENOL	77926	U <	1100.000	UG/KG	8270	
2, 4, 5-TRICHLOROPHENOL	77928	U <	5500.000	UG/KG	8270	
4-CHLOROANALINE	77930	U <	1100.000	UG/KG	8270	
2-NITROANALINE	77932	U <	5500.000	UG/KG	8270	
3-NITROANALINE	77934	U <	5500.000	UG/KG	8270	
4-NITROANALINE	77936	U <	5500.000	UG/KG	8270	
2-METHYLNAPHTHALENE	78305		43000.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	40.000	UG/KG	8240
BROMOFORM	34290	U <	40.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	40.000	UG/KG	8240
CHLOROBENZENE	34304	U <	40.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	40.000	UG/KG	8240
CHLOROETHANE	34314	U <	80.000	UG/KG	8240
CHLOROFORM	34318	U <	40.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	40.000	UG/KG	8240
ETHYLBENZENE	34374	U <	40.000	UG/KG	8240
METHYL BROMIDE	34416	U <	80.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	80.000	UG/KG	8240
METHYLENE CHLORIDE	34426	J	19.700	UG/KG	8240
TETRACHLOROETHENE	34478	U <	40.000	UG/KG	8240
TOLUENE	34483	U <	40.000	UG/KG	8240
TRICHLOROETHENE	34487	U <	40.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	80.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	40.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	40.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	40.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	40.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	40.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	40.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	40.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	40.000	UG/KG	8240
2-CHLOROETHYLVINYL ETHER	34579	U <	80.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	40.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	40.000	UG/KG	8240
XYLENES	45510	U <	40.000	UG/KG	8240
ACETONE	75059	J	33.600	UG/KG	8240
METHYLETHYL KETONE	75078	J	30.000	UG/KG	8240
2-HEXANONE	75166	U <	80.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	80.000	UG/KG	8240
STRYENE	75192	U <	40.000	UG/KG	8240
VINYL ACETATE	75193	U <	80.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	40.000	UG/KG	8240

CM:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value.

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-1

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 29% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260362
DATE COLLECTED: 03/24/98
TIME COLLECTED: 11:30
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

COMPOUND	SURROGATE RECOVERIES	PAGE 1
	RECOVERY %	
1, 2-DICHLOROETHANE	96	
2, 4, 6-TRIBROMOPHENOL	116	
2-FLUOROBIPHENYL	131	
2-FLUOROPHENOL	111	
4-BROMOFLUOROBENZENE	98	
NITROBENZENE-D5	106	
P-TERPHENYL-D14	140	
PHENOL-D5	104	
TOLUENE-D8	100	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-2

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 27% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260362
DATE COLLECTED: 03/24/98
TIME COLLECTED: 11:30
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

COMPOUND	VALUE	UNIT
NONE FOUND	0	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-2

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 27% MOISTURE.

ANALYST

Bill Ballou

SAMPLE NUMBER: 260362
 AGENCY NUMBER:
 DATE COLLECTED: 03/24/98
 TIME COLLECTED: 11:30
 DATE RECEIVED: 03/25/98
 DATE COMPLETED: / /
 PWS ID:
 STATION:
 COLLECTED BY: KK
 DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
 KAREN KHALAFIAN

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PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	550.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	550.000	UG/KG	8270	
ANTHRACENE	34223	U <	550.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	550.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	550.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	550.000	UG/KG	8270	
BIS (2-CHLOROETHYL) ETHER	34271	U <	550.000	UG/KG	8270	
BIS (2-CHLOROETHOXY) METHANE	34281	U <	550.000	UG/KG	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34286	U <	550.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	550.000	UG/KG	8270	
CHRYSENE	34323	U <	550.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	550.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	550.000	UG/KG	8270	
FLUORANTHENE	34379	U <	550.000	UG/KG	8270	
FLUORENE	34384	U <	550.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	550.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	550.000	UG/KG	8270	
INDENO (123-CD) PYRENE	34406	U <	550.000	UG/KG	8270	
ISOPHORONE	34411	U <	550.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	550.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	550.000	UG/KG	8270	
NAPHTHALENE	34445	U <	550.000	UG/KG	8270	
NITROBENZENE	34450	U <	550.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	550.000	UG/KG	8270	
PHENANTHRENE	34464	U <	550.000	UG/KG	8270	
PYRENE	34472	U <	550.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	550.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529	U <	550.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	550.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	550.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	550.000	UG/KG	8270	

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * EXTRACTABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
1, 3-DICHLOROBENZENE	34569	U <	550.000	UG/KG	8270	
1, 4-DICHLOROBENZENE	34574	U <	550.000	UG/KG	8270	
2-CHLORONAPHTHALENE	34584	U <	550.000	UG/KG	8270	
2-CHLOROPHENOL	34589	U <	550.000	UG/KG	8270	
2-NITROPHENOL	34594	U <	550.000	UG/KG	8270	
DI-N-OCTYLPHthalate	34599	U <	550.000	UG/KG	8270	
2, 4-DICHLOROPHENOL	34604	U <	550.000	UG/KG	8270	
2, 4-DIMETHYLPHENOL	34609	U <	550.000	UG/KG	8270	
2, 4-DINITROTOLUENE S	34614	U <	550.000	UG/KG	8270	
2, 4-DINITROPHENOL	34619	U <	2750.000	UG/KG	8270	
2, 4, 6-TRICHLOROPHENOL	34624	U <	550.000	UG/KG	8270	
2, 6-DINITROTOLUENE	34629	U <	550.000	UG/KG	8270	
3, 3'-DICHLOROBENZIDINE	34634	U <	1100.000	UG/KG	8270	
4-BROMOPHENYLPHENYL ETHER	34639	U <	550.000	UG/KG	8270	
4-CHLOROPHENYLPHENYL ETHER	34644	U <	550.000	UG/KG	8270	
4-NITROPHENOL	34649	U <	2750.000	UG/KG	8270	
4, 6-DINITRO-O-CRESOL	34660	U <	2750.000	UG/KG	8270	
PHENOL	34695	U <	550.000	UG/KG	8270	
PENTACHLOROPHENOL	39061	U <	2750.000	UG/KG	8270	
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	550.000	UG/KG	8270	
DI-N-BUTYLPHthalate	39112	U <	550.000	UG/KG	8270	
HEXACHLOROBENZENE S	39701	U <	550.000	UG/KG	8270	
HEXACHLOROBUTADIENE	39705	U <	550.000	UG/KG	8270	
BENZYL ALCOHOL	75212	U <	550.000	UG/KG	8270	
BENZOIC ACID	75315	U <	2750.000	UG/KG	8270	
DIBENZOFURAN	76619	U <	550.000	UG/KG	8270	
2-METHYLPHENOL	77924	U <	550.000	UG/KG	8270	
4-METHYLPHENOL	77926	U <	550.000	UG/KG	8270	
2, 4, 5-TRICHLOROPHENOL	77928	U <	2750.000	UG/KG	8270	
4-CHLOROANALINE	77930	U <	550.000	UG/KG	8270	
2-NITROANALINE	77932	U <	2750.000	UG/KG	8270	
3-NITROANALINE	77934	U <	2750.000	UG/KG	8270	
4-NITROANALINE	77936	U <	2750.000	UG/KG	8270	
2-METHYLNAPHTHALENE	78305	U <	550.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	7.000	UG/KG	8240
BROMOFORM	34290	U <	7.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	7.000	UG/KG	8240
CHLOROBENZENE	34304	U <	7.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	7.000	UG/KG	8240
CHLOROETHANE	34314	U <	14.000	UG/KG	8240
CHLOROFORM	34318	U <	7.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	7.000	UG/KG	8240
ETHYLBENZENE	34374	U <	7.000	UG/KG	8240
METHYL BROMIDE	34416	U <	14.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	14.000	UG/KG	8240
METHYLENE CHLORIDE	34426	J	3.200	UG/KG	8240
TETRACHLOROETHENE	34478	U <	7.000	UG/KG	8240
TOLUENE	34483	U <	7.000	UG/KG	8240
TRICHLOROETHENE	34487	U <	7.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	14.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	7.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	7.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	7.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	7.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	7.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	7.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	7.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	7.000	UG/KG	8240
2-CHLOROETHYL VINYL ETHER	34579	U <	14.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	7.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	7.000	UG/KG	8240
XYLEMES	45510	U <	7.000	UG/KG	8240
ACETONE	75059	J	8.700	UG/KG	8240
METHYLETHYL KETONE	75078	J	4.400	UG/KG	8240
2-HEXANONE	75166	U <	14.000	UG/KG	8240
METHYLIOSITYL KETONE	75169	U <	14.000	UG/KG	8240
STRYENE	75192	U <	7.000	UG/KG	8240
VINYL ACETATE	75193	U <	14.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	7.000	UG/KG	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-2

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 27% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260363
DATE COLLECTED: 03/24/98
TIME COLLECTED: 11:45
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

COMPOUND	SURROGATE RECOVERIES	PAGE	1
	RECOVERY %		
1,2-DICHLOROETHANE	95		
2,4,6-TRIBROMOPHENOL	104		
2-FLUOROBIPHENYL	116		
2-FLUOROPHENOL	108		
4-BROMOFLUOROBENZENE	98		
NITROBENZENE-D5	98		
P-TERPHENYL-D14	124		
PHENOL-D5	96		
TOLUENE-D8	99		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-3

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 29% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260363
DATE COLLECTED: 03/24/98
TIME COLLECTED: 11:45
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-3

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 29% MOISTURE.

ANALYST

Bell Ballou

SAMPLE NUMBER: 260363

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 11:45

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	500.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	500.000	UG/KG	8270	
ANTHRACENE	34223	U <	500.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	500.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	500.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	500.000	UG/KG	8270	
BIS (2-CHLOROETHYL) ETHER	34271	U <	500.000	UG/KG	8270	
BIS (2-CHLOROETHOXY) METHANE	34281	U <	500.000	UG/KG	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34286	U <	500.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	500.000	UG/KG	8270	
CHRYSENE	34323	U <	500.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	500.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	500.000	UG/KG	8270	
FLUORANTHENE	34379	U <	500.000	UG/KG	8270	
FLUORENE	34384	U <	500.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	500.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	500.000	UG/KG	8270	
INDENO (123-CD) PYRENE	34406	U <	500.000	UG/KG	8270	
ISOPHORONE	34411	U <	500.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	500.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	500.000	UG/KG	8270	
NAPHTHALENE	34445	U <	500.000	UG/KG	8270	
NITROBENZENE	34450	U <	500.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	500.000	UG/KG	8270	
PHENANTHRENE	34464	U <	500.000	UG/KG	8270	
PYRENE	34472	U <	500.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	500.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529	U <	500.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	500.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	500.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	500.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
1, 3-DICHLOROBENZENE	34569	U <	500.000	UG/KG	8270	
1, 4-DICHLOROBENZENE	34574	U <	500.000	UG/KG	8270	
2-CHLORONAPHTHALENE	34584	U <	500.000	UG/KG	8270	
2-CHLOROPHENOL	34589	U <	500.000	UG/KG	8270	
2-NITROPHENOL	34594	U <	500.000	UG/KG	8270	
DI-N-OCTYLPHthalate	34599	U <	500.000	UG/KG	8270	
2, 4-DICHLOROPHENOL	34604	U <	500.000	UG/KG	8270	
2, 4-DIMETHLYPHENOL	34609	U <	500.000	UG/KG	8270	
2, 4-DINITROTOLUENE S	34614	U <	500.000	UG/KG	8270	
2, 4-DINITROPHENOL	34619	U <	2500.000	UG/KG	8270	
2, 4, 6-TRICHLOROPHENOL	34624	U <	500.000	UG/KG	8270	
2, 6-DINITROTOLUENE	34629	U <	500.000	UG/KG	8270	
3, 3'-DICHLOROBENIZDINE	34634	U <	1000.000	UG/KG	8270	
4-BROMOPHENYLPHENYL ETHER	34639	U <	500.000	UG/KG	8270	
4-CHLOROPHENYLPHENYL ETHER	34644	U <	500.000	UG/KG	8270	
4-NITROPHENOL	34649	U <	2500.000	UG/KG	8270	
4, 6-DINITRO-O-CRESOL	34660	U <	2500.000	UG/KG	8270	
PHENOL	34695	U <	500.000	UG/KG	8270	
PENTACHLOROPHENOL	39061	U <	2500.000	UG/KG	8270	
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	500.000	UG/KG	8270	
DI-N-BUTYLPHthalate	39112	U <	500.000	UG/KG	8270	
HEXACHLOROBENZENE S	39701	U <	500.000	UG/KG	8270	
HEXACHLOROBUTADIENE	39705	U <	500.000	UG/KG	8270	
BENZYL ALCOHOL	75212	U <	500.000	UG/KG	8270	
BENZOIC ACID	75315	U <	2500.000	UG/KG	8270	
DIBENZOFURAN	76619	U <	500.000	UG/KG	8270	
2-METHYLPHENOL	77924	U <	500.000	UG/KG	8270	
4-METHYLPHENOL	77926	U <	500.000	UG/KG	8270	
2, 4, 5-TRICHLOROPHENOL	77928	U <	2500.000	UG/KG	8270	
4-CHLOROANALINE	77930	U <	500.000	UG/KG	8270	
2-NITROANALINE	77932	U <	2500.000	UG/KG	8270	
3-NITROANALINE	77934	U <	2500.000	UG/KG	8270	
4-NITROANALINE	77936	U <	2500.000	UG/KG	8270	
2-METHYLNAPHTHALENE	78305	U <	500.000	UG/KG	8270	

CM:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value.

B - Indicates the analyte is found in the associated blank as well as in the sample.

R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	6.000	UG/KG	8240
BROMOFORM	34290	U <	6.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	6.000	UG/KG	8240
CHLOROBENZENE	34304	U <	6.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	6.000	UG/KG	8240
CHLOROETHANE	34314	U <	12.000	UG/KG	8240
CHLOROFORM	34318	U <	6.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	6.000	UG/KG	8240
ETHYLBENZENE	34374	U <	6.000	UG/KG	8240
METHYL BROMIDE	34416	U <	12.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	12.000	UG/KG	8240
METHYLENE CHLORIDE	34426	J	2.500	UG/KG	8240
TETRACHLOROETHENE	34478	U <	6.000	UG/KG	8240
TOLUENE	34483	U <	6.000	UG/KG	8240
TRICHLOROETHENE	34487	U <	6.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	12.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	6.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	6.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	6.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	6.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	6.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	6.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	6.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	6.000	UG/KG	8240
2-CHLOROETHYLVINYL ETHER	34579	U <	12.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	6.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	6.000	UG/KG	8240
XYLEMES	45510	U <	6.000	UG/KG	8240
ACETONE	75059	J	4.600	UG/KG	8240
METHYLETHYL KETONE	75078	J	5.200	UG/KG	8240
2-HEXANONE	75166	U <	12.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	12.000	UG/KG	8240
STRYENE	75192	U <	6.000	UG/KG	8240
VINYL ACETATE	75193	U <	12.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	6.000	UG/KG	8240

CM:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value.

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R - Indicates compound was not analyzed for.

CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-3

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 29% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260364
DATE COLLECTED: 03/24/98
TIME COLLECTED: 15:50
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PAGE 1

SURROGATE RECOVERIES	
COMPOUND	RECOVERY %
1, 2-DICHLOROETHANE	97
2, 4, 6-TRIBROMOPHENOL	21
2-FLUOROBIPHENYL	32
2-FLUOROPHENOL	25
4-BROMOFLUOROBENZENE	94
NITROBENZENE-D5	27
P-TERPHENYL-D14	66
PHENOL-D5	23
TOLUENE-D8	104

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-4

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 25% MOISTURE.

ANALYST

Bell Battin

SAMPLE NUMBER: 260364
DATE COLLECTED: 03/24/98
TIME COLLECTED: 15:50
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
1, 6, 7-TRIMETHYLNAPHTHALENE	24000	UG/KG	
1, 7-DIMETHYLNAPHTHALENE	25000	UG/KG	
2, 3, 6-TRIMETHYLNAPHTHALENE	30000	UG/KG	
2, 3-DIMETHYLNAPHTHALENE	20000	UG/KG	
2-METHYL PYRENE	19000	UG/KG	
3-METHYLHEXADECANE	36000	UG/KG	
9-OCTYLHEPTADECANE	64000	UG/KG	
DOCOSANE	79000	UG/KG	
EICOSANE	30000	UG/KG	
HENEICOSANE	35000	UG/KG	
HEPTADECANE	30000	UG/KG	
HEXACOSANE	36000	UG/KG	
HEXADECANE	44000	UG/KG	
NONADECANE	32000	UG/KG	
PENTACOSANE	42000	UG/KG	
TETRADECANE	20000	UG/KG	
TRICOSANE	64000	UG/KG	
UNKNOWN ALKANE SCAN #2876 (SEMOVOL)	76000	UG/KG	
UNKNOWN ALKANE SCAN #3011 (SEMOVOL)	43000	UG/KG	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-4

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 25% MOISTURE.

ANALYST



SAMPLE NUMBER: 260364
DATE COLLECTED: 03/24/98
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DATE RECEIVED: 03/25/98
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STATION:
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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	2
COMPOUND	VALUE	UNIT	
UNKNOWN ALKANE SCAN #3267 (SEMIVOL)	22000	UG/KG	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-4

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 25% MOISTURE.

ANALYST

Bill Butters

SAMPLE NUMBER: 260364

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED: 15:50

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	1100.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	1100.000	UG/KG	8270	
ANTHRACENE	34223		15000.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	1100.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	1100.000	UG/KG	8270	
BENZO (A) PYRENE	34250		8300.000	UG/KG	8270	
BIS (2-CHLOROETHYL) ETHER	34271	U <	1100.000	UG/KG	8270	
BIS (2-CHLOROETHOXY) METHANE	34281	U <	1100.000	UG/KG	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34286	U <	1100.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	1100.000	UG/KG	8270	
CHRYSENE	34323		32000.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	1100.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	1100.000	UG/KG	8270	
FLUORANTHENE	34379	U <	1100.000	UG/KG	8270	
FLUORENE	34384	U <	1100.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	1100.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	1100.000	UG/KG	8270	
INDENO (123-CD) PYRENE	34406	U <	1100.000	UG/KG	8270	
ISOPHORONE	34411	U <	1100.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	1100.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	1100.000	UG/KG	8270	
NAPHTHALENE	34445		5500.000	UG/KG	8270	
NITROBENZENE	34450	U <	1100.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	1100.000	UG/KG	8270	
PHENANTHRENE	34464		86000.000	UG/KG	8270	
PYRENE	34472		130000.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	1100.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529		13000.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	1100.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	1100.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	1100.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 3-DICHLOROBENZENE	34569	U <	1100.000	UG/KG	8270
1, 4-DICHLOROBENZENE	34574	U <	1100.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	1100.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	1100.000	UG/KG	8270
2-NITROPHENOL	34594	U <	1100.000	UG/KG	8270
DI-N-OCTYLPHthalate	34599	U <	1100.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	1100.000	UG/KG	8270
2, 4-DIMETHLYPHENOL	34609	U <	1100.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	1100.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	5500.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	1100.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	1100.000	UG/KG	8270
3, 3'-DICHLOROBENIZDINE	34634	U <	2200.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	1100.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	1100.000	UG/KG	8270
4-NITROPHENOL	34649	U <	5500.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	5500.000	UG/KG	8270
PHENOL	34695	U <	1100.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	5500.000	UG/KG	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	1100.000	UG/KG	8270
DI-N-BUTYLPHthalate	39112	U <	1100.000	UG/KG	8270
HEXACHLOROBENZENE S	39701	U <	1100.000	UG/KG	8270
HEXACHLOROBUTADIENE	39705	U <	1100.000	UG/KG	8270
BENZYL ALCOHOL	75212	U <	1100.000	UG/KG	8270
BENZOIC ACID	75315	U <	5500.000	UG/KG	8270
DIBENZOFURAN	76619	U <	1100.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	1100.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	1100.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	5500.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	1100.000	UG/KG	8270
2-NITROANALINE	77932	U <	5500.000	UG/KG	8270
3-NITROANALINE	77934	U <	5500.000	UG/KG	8270
4-NITROANALINE	77936	U <	5500.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305		41000.000	UG/KG	8270

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	40.000	UG/KG	8240
BROMOFORM	34290	U <	40.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	40.000	UG/KG	8240
CHLOROBENZENE	34304	U <	40.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	40.000	UG/KG	8240
CHLOROETHANE	34314	U <	80.000	UG/KG	8240
CHLOROFORM	34318	U <	40.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	40.000	UG/KG	8240
ETHYLBENZENE	34374	U <	40.000	UG/KG	8240
METHYL BROMIDE	34416	U <	80.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	80.000	UG/KG	8240
METHYLENE CHLORIDE	34426	J	17.300	UG/KG	8240
TETRACHLOROETHENE	34478	U <	40.000	UG/KG	8240
TOLUENE	34483	J	2.540	UG/KG	8240
TRICHLOROETHENE	34487	U <	40.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	80.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	40.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	40.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	40.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	40.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	40.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	40.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	40.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	40.000	UG/KG	8240
2-CHLOROETHYL VINYL ETHER	34579	U <	80.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	40.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	40.000	UG/KG	8240
XYLENES	45510	U <	40.000	UG/KG	8240
ACETONE	75059	J	25.400	UG/KG	8240
METHYLETHYL KETONE	75078	J	22.800	UG/KG	8240
2-HEXANONE	75166	U <	80.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	80.000	UG/KG	8240
STRYENE	75192	U <	40.000	UG/KG	8240
VINYL ACETATE	75193	U <	80.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	40.000	UG/KG	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES: METAL

SAMPLER'S COMMENTS: OH-WS-4

ANALYST'S COMMENTS: ANALYTE CONCENTRATIONS BY DRY WEIGHT. 25% MOISTURE.

ANALYST

Bill Batter

SAMPLE NUMBER: 260365
DATE COLLECTED: 03/24/98
TIME COLLECTED:
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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SURROGATE RECOVERIES		PAGE 1
COMPOUND	RECOVERY %	
1,2-DICHLOROETHANE	77	
2,4,6-TRIBROMOPHENOL		
2-FLUOROBIPHENYL		
2-FLUOROPHENOL		
4-BROMOFLUOROBENZENE	94	
NITROBENZENE-D5		
P-TERPHENYL-D14		
PHENOL-D5		
TOLUENE-D8	93	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: OH-FB (FIELD BLANK)

ANALYST'S COMMENTS:

ANALYST

Bill Batten

SAMPLE NUMBER: 260365
DATE COLLECTED: 03/24/98
TIME COLLECTED:
DATE RECEIVED: 03/25/98
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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
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HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND VOL	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: OH-FB (FIELD BLANK)

ANALYST'S COMMENTS:

ANALYST

Bill Baller

SAMPLE NUMBER: 260365

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED:

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * PURGEABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
DICHLOROBROMOMETHANE	32101	U <	5.000	UG/L	8240	
CARBON TETRACHOLRIDE	32102	U <	5.000	UG/L	8240	
BROMOFORM	32104	U <	5.000	UG/L	8240	
CHLOROFORM	32106	U <	5.000	UG/L	8240	
TOLUENE	34010	U <	5.000	UG/L	8240	
BENZENE	34030	U <	5.000	UG/L	8240	
CHLOROBENZENE	34301	U <	5.000	UG/L	8240	
CHLORODIBROMOMETHANE	34306	U <	5.000	UG/L	8240	
CHLOROETHANE	34311	U <	10.000	UG/L	8240	
ETHYLBENZENE	34371	U <	5.000	UG/L	8240	
METHYL BROMIDE	34413	U <	10.000	UG/L	8240	
METHYL CHLORIDE	34418	U <	10.000	UG/L	8240	
METHYLENE CHLORIDE	34423	U <	5.000	UG/L	8240	
TETRACHLOROETHENE	34475	U <	5.000	UG/L	8240	
1,1-DICHLOROETHANE	34496	U <	5.000	UG/L	8240	
1,1-DICHLOROETHENE	34501	U <	5.000	UG/L	8240	
1,1,1-TRICHLOROETHANE	34506	U <	5.000	UG/L	8240	
1,1,2-TRICHLOROETHANE	34511	U <	5.000	UG/L	8240	
1,1,2,2-TETRACHLOROETHANE	34516	U <	5.000	UG/L	8240	
1,2-DICHLOROETHANE	34531	U <	5.000	UG/L	8240	
1,2-DICHLOROPROPANE	34541	U <	5.000	UG/L	8240	
TRANS-1,2-DICHLOROETHENE	34546	U <	5.000	UG/L	8240	
2-CHLOROETHYL VINYL ETHER	34576	U <	10.000	UG/L	8240	
TRANS-1,3-DICHLOROPROPENE	34699	U <	5.000	UG/L	8240	
CIS-1,3-DICHLOROPROPENE	34704	U <	5.000	UG/L	8240	
VINYL CHLORIDE	39175	U <	10.000	UG/L	8240	
TRICHLOROETHENE	39180	U <	5.000	UG/L	8240	
METHYLISOBUTYL KETONE	76148	U <	10.000	UG/L	8240	
CARBON DISULFIDE	77041	U <	5.000	UG/L	8240	
VINYL ACETATE	77057	U <	10.000	UG/L	8240	
2-HEXANONE	77103	U <	10.000	UG/L	8240	

CM:

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CONCENTRATION IN SAMPLE * PURGEABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
STYRENE	77128	U <	5.000	UG/L	8240	
XYLEMES	81551	U <	5.000	UG/L	8240	
ACETONE	81552	J	2.030	UG/L	8240	
METHYLETHYL KETONE	81595	U <	10.000	UG/L	8240	

CONCENTRATION IN SAMPLE * PURGEABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	

SOURCE: OHIO OIL COMPANY
 PROGRAM: Waste Management Division
 COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: OH-FB (FIELD BLANK)

ANALYST'S COMMENTS:

ANALYST

Bell

CM:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value.

B - Indicates the analyte is found in the associated blank as well as in the sample.

R - Indicates compound was not analyzed for.

SAMPLE NUMBER: 260366
DATE COLLECTED: 03/24/98
TIME COLLECTED:
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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SURROGATE RECOVERIES		PAGE 1
COMPOUND	RECOVERY %	
1, 2-DICHLOROETHANE	77	
2, 4, 6-TRIBROMOPHENOL		
2-FLUOROBIPHENYL		
2-FLUOROPHENOL		
4-BROMOFLUOROBENZENE	93	
NITROBENZENE-D5		
P-TERPHENYL-D14		
PHENOL-D5		
TOLUENE-D8	93	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: OH-TB (TRIP BLANK)

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260366
DATE COLLECTED: 03/24/98
TIME COLLECTED:
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND VOL	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: OH-TB (TRIP BLANK)

ANALYST'S COMMENTS:

ANALYST

Bill Bitter

SAMPLE NUMBER: 260366

AGENCY NUMBER:

DATE COLLECTED: 03/24/98

TIME COLLECTED:

DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 05/28/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * PURGEABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
DICHLOROBROMOMETHANE	32101	U <	5.000	UG/L	8240	
CARBON TETRACHOLRIDE	32102	U <	5.000	UG/L	8240	
BROMOFORM	32104	U <	5.000	UG/L	8240	
CHLOROFORM	32106	U <	5.000	UG/L	8240	
TOLUENE	34010	U <	5.000	UG/L	8240	
BENZENE	34030	U <	5.000	UG/L	8240	
CHLOROBENZENE	34301	U <	5.000	UG/L	8240	
CHLORODIBROMOMETHANE	34306	U <	5.000	UG/L	8240	
CHLOROETHANE	34311	U <	10.000	UG/L	8240	
ETHYLBENZENE	34371	U <	5.000	UG/L	8240	
METHYL BROMIDE	34413	U <	10.000	UG/L	8240	
METHYL CHLORIDE	34418	U <	10.000	UG/L	8240	
METHYLENE CHLORIDE	34423	U <	5.000	UG/L	8240	
TETRACHLOROETHENE	34475	U <	5.000	UG/L	8240	
1,1-DICHLOROETHANE	34496	U <	5.000	UG/L	8240	
1,1-DICHLOROETHENE	34501	U <	5.000	UG/L	8240	
1,1,1-TRICHLOROETHANE	34506	U <	5.000	UG/L	8240	
1,1,2-TRICHLOROETHANE	34511	U <	5.000	UG/L	8240	
1,1,2,2-TETRACHLOROETHANE	34516	U <	5.000	UG/L	8240	
1,2-DICHLOROETHANE	34531	U <	5.000	UG/L	8240	
1,2-DICHLOROPROPANE	34541	U <	5.000	UG/L	8240	
TRANS-1,2-DICHLOROETHENE	34546	U <	5.000	UG/L	8240	
2-CHLOROETHYL VINYL ETHER	34576	U <	10.000	UG/L	8240	
TRANS-1,3-DICHLOROPROPENE	34699	U <	5.000	UG/L	8240	
CIS-1,3-DICHLOROPROPENE	34704	U <	5.000	UG/L	8240	
VINYL CHLORIDE	39175	U <	10.000	UG/L	8240	
TRICHLOROETHENE	39180	U <	5.000	UG/L	8240	
METHYLIOSBUTYL KETONE	76148	U <	10.000	UG/L	8240	
CARBON DISULFIDE	77041	U <	5.000	UG/L	8240	
VINYL ACETATE	77057	U <	10.000	UG/L	8240	
2-HEXANONE	77103	U <	10.000	UG/L	8240	

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CONCENTRATION IN SAMPLE * PURGEABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
STYRENE	77128	U <	5.000	UG/L	8240	
XYLEMES	81551	U <	5.000	UG/L	8240	
ACETONE	81552	J	3.000	UG/L	8240	
METHYLETHYL KETONE	81595	U <	10.000	UG/L	8240	

CONCENTRATION IN SAMPLE * PURGEABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	

SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: OH-TB(TRIP BLANK)

ANALYST'S COMMENTS:

ANALYST

Bill Battens

CM:

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SAMPLE NUMBER: 260368
DATE COLLECTED: 03/25/98
TIME COLLECTED:
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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SURROGATE RECOVERIES		PAGE	1
COMPOUND	RECOVERY %		
1,2-DICHLOROETHANE	77		
2,4,6-TRIBROMOPHENOL	100		
2-FLUOROBIPHENYL	110		
2-FLUOROPHENOL	66		
4-BROMOFLUOROBENZENE	93		
NITROBENZENE-D5	79		
P-TERPHENYL-D14	84		
PHENOL-D5	38		
TOLUENE-D8	90		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: LAB BLANK

ANALYST'S COMMENTS:

ANALYST

Bill Battens

SAMPLE NUMBER: 260368
DATE COLLECTED: 03/25/98
TIME COLLECTED:
DATE RECEIVED: 03/25/98
DATE REPORTED: 05/29/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: LAB BLANK

ANALYST'S COMMENTS:

ANALYST

Bell Batter

SAMPLE NUMBER: 260368

AGENCY NUMBER:

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DATE RECEIVED: 03/25/98

DATE COMPLETED: / /

PWS ID:

STATION:

COLLECTED BY: KK

DATE REPORTED: 05/29/98

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION

KAREN KHALAFIAN

CC: FILE COPY

PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34200	U <	10.000	UG/L	8270	
ACENAPHTHENE	34205	U <	10.000	UG/L	8270	
ANTHRACENE	34220	U <	10.000	UG/L	8270	
BENZO (B) FLUORANTHENE	34230	U <	10.000	UG/L	8270	
BENZO (K) FLUORANTHENE	34242	U <	10.000	UG/L	8270	
BENZO (A) PYRENE	34247	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHYL) ETHER	34268	U <	10.000	UG/L	8270	
BIS (2-CHLOROETHOXY) METHANE	34278	U <	10.000	UG/L	8270	
BIS (2-CHLOROISOPROPYL) ETHER	34283	U <	10.000	UG/L	8270	
BUTYLBENZYLPHthalate	34292	U <	10.000	UG/L	8270	
CHRYSENE	34320	U <	10.000	UG/L	8270	
DIETHYLPHthalate	34336	U <	10.000	UG/L	8270	
DIMETHYLPHthalate	34341	U <	10.000	UG/L	8270	
FLUORANTHENE	34376	U <	10.000	UG/L	8270	
FLUORENE	34381	U <	10.000	UG/L	8270	
HEXACHLOROCYCLOPENTADIENE	34386	U <	10.000	UG/L	8270	
HEXACHLOROETHANE	34396	U <	10.000	UG/L	8270	
INDENO (123CD) PYRENE	34403	U <	10.000	UG/L	8270	
ISOPHORONE	34408	U <	10.000	UG/L	8270	
NITROSODIPROPYLAMINE	34428	U <	10.000	UG/L	8270	
NITROSODIPHENYLAMINE	34433	U <	10.000	UG/L	8270	
NITROBENZENE	34447	U <	10.000	UG/L	8270	
P-CHLORO-M-CRESOL	34452	U <	10.000	UG/L	8270	
PHENANTHRENE	34461	U <	10.000	UG/L	8270	
PYRENE	34469	U <	10.000	UG/L	8270	
BENZO (GHI) PERYLENE	34521	U <	10.000	UG/L	8270	
BENZO (A) ANTHRACENE	34526	U <	10.000	UG/L	8270	
1, 2-DICHLOROBENZENE	34536	U <	10.000	UG/L	8270	
1, 2, 4-TRICHLOROBENZENE	34551	U <	10.000	UG/L	8270	
DIBENZO (AH) ANTHRACENE	34556	U <	10.000	UG/L	8270	
1, 3-DICHLOROBENZENE	34566	U <	10.000	UG/L	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *					PAGE	2
PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD	
1,4-DICHLOROBENZENE	34571	U <	10.000	UG/L	8270	
2-CHLORONAPHTHALENE	34581	U <	10.000	UG/L	8270	
2-CHLOROPHENOL	34586	U <	10.000	UG/L	8270	
2-NITROPHENOL	34591	U <	10.000	UG/L	8270	
DI-N-OCTYLPHthalate	34596	U <	10.000	UG/L	8270	
2,4-DICHLOROPHENOL	34601	U <	10.000	UG/L	8270	
2,4-DIMETHYLPHENOL	34606	U <	10.000	UG/L	8270	
2,4-DINITROTOLUENE	34611	U <	10.000	UG/L	8270	
2,4-DINITROPHENOL	34616	U <	50.000	UG/L	8270	
2,4,6-TRICHLOROPHENOL	34621	U <	10.000	UG/L	8270	
2,6-DINITROTOLUENE	34626	U <	10.000	UG/L	8270	
3,3'-DICHLOROBENZIDINE	34631	U <	20.000	UG/L	8270	
4-BROMOPHENYLPHENYL ETHER	34636	U <	10.000	UG/L	8270	
4-CHLOROPHENYLPHENYL ETHER	34641	U <	10.000	UG/L	8270	
4-NITROPHENOL	34646	U <	50.000	UG/L	8270	
4,6-DINITRO-O-CRESOL	34657	U <	50.000	UG/L	8270	
PHENOL	34694	U <	10.000	UG/L	8270	
NAPHTHALENE (GRO)	34696	U <	10.000	UG/L	8270	
PENTACHLOROPHENOL	39032	U <	50.000	UG/L	8270	
BIS(2-ETHYLHEXYL) PHTHALATE	39100	U <	10.000	UG/L	8270	
DI-N-BUTYLPHthalate	39110	U <	10.000	UG/L	8270	
HEXACHLOROBENZENE	39700	U <	10.000	UG/L	8270	
HEXACHLOROBUTADIENE	39702	U <	10.000	UG/L	8270	
DIBENZOFURAN	75647	U <	10.000	UG/L	8270	
BENZYL ALCOHOL	77147	U <	10.000	UG/L	8270	
BENZOIC ACID	77247	U <	50.000	UG/L	8270	
2-METHYLNAPHTHALENE	77416	U <	10.000	UG/L	8270	
2-METHYL PHENOL	77923	U <	10.000	UG/L	8270	
4-METHYL PHENOL	77925	U <	10.000	UG/L	8270	
2,4,5-TRICHLOROPHENOL	77927	U <	50.000	UG/L	8270	
4-CHLOROANALINE	77929	U <	10.000	UG/L	8270	
2-NITROANALINE	77931	U <	50.000	UG/L	8270	
3-NITROANALINE	77933	U <	50.000	UG/L	8270	
4-NITROANALINE	77935	U <	50.000	UG/L	8270	

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
DICHLOROBROMOMETHANE	32101	U <	5.000	UG/L	8240
CARBON TETRACHLORIDE	32102	U <	5.000	UG/L	8240
BROMOFORM	32104	U <	5.000	UG/L	8240
CHLOROFORM	32106	U <	5.000	UG/L	8240
TOLUENE	34010	U <	5.000	UG/L	8240
BENZENE	34030	U <	5.000	UG/L	8240
CHLOROBENZENE	34301	U <	5.000	UG/L	8240
CHLORODIBROMOMETHANE	34306	U <	5.000	UG/L	8240
CHLOROETHANE	34311	U <	10.000	UG/L	8240
ETHYLBENZENE	34371	U <	5.000	UG/L	8240
METHYL BROMIDE	34413	U <	10.000	UG/L	8240
METHYL CHLORIDE	34418	U <	10.000	UG/L	8240
METHYLENE CHLORIDE	34423	U <	5.000	UG/L	8240
TETRACHLOROETHENE	34475	U <	5.000	UG/L	8240
1,1-DICHLOROETHANE	34496	U <	5.000	UG/L	8240
1,1-DICHLOROETHENE	34501	U <	5.000	UG/L	8240
1,1,1-TRICHLOROETHANE	34506	U <	5.000	UG/L	8240
1,1,2-TRICHLOROETHANE	34511	U <	5.000	UG/L	8240
1,1,2,2-TETRACHLOROETHANE	34516	U <	5.000	UG/L	8240
1,2-DICHLOROETHANE	34531	U <	5.000	UG/L	8240
1,2-DICHLOROPROPANE	34541	U <	5.000	UG/L	8240
TRANS-1,2-DICHLOROETHENE	34546	U <	5.000	UG/L	8240
2-CHLOROETHYLVINYL ETHER	34576	U <	10.000	UG/L	8240
TRANS-1,3-DICHLOROPROPENE	34699	U <	5.000	UG/L	8240
CIS-1,3-DICHLOROPROPENE	34704	U <	5.000	UG/L	8240
VINYL CHLORIDE	39175	U <	10.000	UG/L	8240
TRICHLOROETHENE	39180	U <	5.000	UG/L	8240
METHYLISOBUTYL KETONE	76148	U <	10.000	UG/L	8240
CARBON DISULFIDE	77041	U <	5.000	UG/L	8240
VINYL ACETATE	77057	U <	10.000	UG/L	8240
2-HEXANONE	77103	U <	10.000	UG/L	8240
STYRENE	77128	U <	5.000	UG/L	8240
XYLENES	81551	U <	5.000	UG/L	8240
ACETONE	81552	U <	10.000	UG/L	8240
METHYLETHYL KETONE	81595	U <	10.000	UG/L	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: LAB BLANK

ANALYST'S COMMENTS:

ANALYST

Bill Batter

SAMPLE NUMBER: 260395
DATE COLLECTED: 03/25/98
TIME COLLECTED:
DATE RECEIVED: 03/26/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

SURROGATE RECOVERIES		PAGE	1
COMPOUND	RECOVERY %		
1, 2-DICHLOROETHANE	89		
2, 4, 6-TRIBROMOPHENOL	81		
2-FLUOROBIPHENYL	87		
2-FLUOROPHENOL	206		
4-BROMOFLUOROBENZENE	102		
NITROBENZENE-D5	79		
P-TERPHENYL-D14	120		
PHENOL-D5	92		
TOLUENE-D8	97		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: LAB BLANK

ANALYST'S COMMENTS:

ANALYST

Bill Butter

SAMPLE NUMBER: 260395
DATE COLLECTED: 03/25/98
TIME COLLECTED:
DATE RECEIVED: 03/26/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH		PAGE	1
COMPOUND	VALUE	UNIT	
NONE FOUND	0		

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: LAB BLANK

ANALYST'S COMMENTS:

ANALYST

Bell Batten

SAMPLE NUMBER: 260395
 AGENCY NUMBER:
 DATE COLLECTED: 03/25/98
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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
 REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
 KAREN KHALAFIAN

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PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	400.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	400.000	UG/KG	8270	
ANTHRACENE	34223	U <	400.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	400.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	400.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	400.000	UG/KG	8270	
BIS(2-CHLOROETHYL) ETHER	34271	U <	400.000	UG/KG	8270	
BIS(2-CHLOROETHOXY) METHANE	34281	U <	400.000	UG/KG	8270	
BIS(2-CHLOROISOPROPYL) ETHER	34286	U <	400.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	400.000	UG/KG	8270	
CHRYSENE	34323	U <	400.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	400.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	400.000	UG/KG	8270	
FLUORANTHENE	34379	U <	400.000	UG/KG	8270	
FLUORENE	34384	U <	400.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	400.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	400.000	UG/KG	8270	
INDENO(123-CD) PYRENE	34406	U <	400.000	UG/KG	8270	
ISOPHORONE	34411	U <	400.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	400.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	400.000	UG/KG	8270	
NAPHTHALENE	34445	U <	400.000	UG/KG	8270	
NITROBENZENE	34450	U <	400.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	400.000	UG/KG	8270	
PHENANTHRENE	34464	U <	400.000	UG/KG	8270	
PYRENE	34472	U <	400.000	UG/KG	8270	
BENZO(GHI) PERYLENE	34524	U <	400.000	UG/KG	8270	
BENZO(A) ANTHRACENE	34529	U <	400.000	UG/KG	8270	
1,2-DICHLOROBENZENE	34539	U <	400.000	UG/KG	8270	
1,2,4-TRICHLOROBENZENE	34554	U <	400.000	UG/KG	8270	
DIBENZO(AH) ANTHRACENE	34559	U <	400.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
1, 3-DICHLOROBENZENE	34569	U <	400.000	UG/KG	8270
1, 4-DICHLOROBENZENE	34574	U <	400.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	400.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	400.000	UG/KG	8270
2-NITROPHENOL	34594	U <	400.000	UG/KG	8270
DI-N-OCTYLPHthalate	34599	U <	400.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	400.000	UG/KG	8270
2, 4-DIMETHLYPHENOL	34609	U <	400.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	400.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	2000.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	400.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	400.000	UG/KG	8270
3, 3'-DICHLOROBENIZDINE	34634	U <	800.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	400.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	400.000	UG/KG	8270
4-NITROPHENOL	34649	U <	2000.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	2000.000	UG/KG	8270
PHENOL	34695	U <	400.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	2000.000	UG/KG	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	400.000	UG/KG	8270
DI-N-BUTYLPHthalate	39112	U <	400.000	UG/KG	8270
HEXACHLOROBENZENE S	39701	U <	400.000	UG/KG	8270
HEXACHLOROBUTADIENE	39705	U <	400.000	UG/KG	8270
BENZYL ALCOHOL	75212	U <	400.000	UG/KG	8270
BENZOIC ACID	75315	U <	2000.000	UG/KG	8270
DIBENZOFURAN	76619	U <	400.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	400.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	400.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	2000.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	400.000	UG/KG	8270
2-NITROANALINE	77932	U <	2000.000	UG/KG	8270
3-NITROANALINE	77934	U <	2000.000	UG/KG	8270
4-NITROANALINE	77936	U <	2000.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305	U <	400.000	UG/KG	8270

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	5.000	UG/KG	8240
BROMOFORM	34290	U <	5.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	5.000	UG/KG	8240
CHLOROBENZENE	34304	U <	5.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	5.000	UG/KG	8240
CHLOROETHANE	34314	U <	10.000	UG/KG	8240
CHLOROFORM	34318	U <	5.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	5.000	UG/KG	8240
ETHYLBENZENE	34374	U <	5.000	UG/KG	8240
METHYL BROMIDE	34416	U <	10.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	10.000	UG/KG	8240
METHYLENE CHLORIDE	34426	J	3.900	UG/KG	8240
TETRACHLOROETHENE	34478	U <	5.000	UG/KG	8240
TOLUENE	34483	U <	5.000	UG/KG	8240
TRICHLOROETHENE	34487	U <	5.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	10.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	5.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	5.000	UG/KG	8240
1,1,1-TRICHLOROETHANE	34509	U <	5.000	UG/KG	8240
1,1,2-TRICHLOROETHANE	34514	U <	5.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	5.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	5.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	5.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	5.000	UG/KG	8240
2-CHLOROETHYLVINYL ETHER	34579	U <	10.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	5.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	5.000	UG/KG	8240
XYLEMES	45510	U <	5.000	UG/KG	8240
ACETONE	75059	J	2.400	UG/KG	8240
METHYLETHYL KETONE	75078	J	1.300	UG/KG	8240
2-HEXANONE	75166	U <	10.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	10.000	UG/KG	8240
STRYENE	75192	U <	5.000	UG/KG	8240
VINYL ACETATE	75193	U <	10.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	5.000	UG/KG	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
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SOURCE: OHIO OIL COMPANY

PROGRAM: Waste Management Division

COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: LAB BLANK

ANALYST'S COMMENTS:

ANALYST

Bill Batten

SAMPLE NUMBER: 260396
DATE COLLECTED: 03/25/98
TIME COLLECTED:
DATE RECEIVED: 03/26/98
DATE REPORTED: 05/28/98
STATION:
COLLECTED BY: KK

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

CC: FILE COPY

PAGE 1

SURROGATE RECOVERIES	
COMPOUND	RECOVERY %
1, 2-DICHLOROETHANE	92
2, 4, 6-TRIBROMOPHENOL	96
2-FLUOROBIPHENYL	104
2-FLUOROPHENOL	96
4-BROMOFLUOROBENZENE	100
NITROBENZENE-D5	91
P-TERPHENYL-D14	149
PHENOL-D5	89
TOLUENE-D8	97

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: LAB BLANK#3

ANALYST'S COMMENTS:

ANALYST

Bill Batter

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HAZARDOUS WASTE DIVISION
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PAGE 1

TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH

COMPOUND	VALUE	UNIT
NONE FOUND	0	

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: LAB BLANK#3

ANALYST'S COMMENTS:

ANALYST

Bill Ballou

SAMPLE NUMBER: 260396

AGENCY NUMBER:

DATE COLLECTED: 03/25/98

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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GCMS LABORATORY

HAZARDOUS WASTE DIVISION
KAREN KHALAFIAN

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PARAMETER NAME	CONCENTRATION IN SAMPLE * EXTRACTABLES *				PAGE	1
	CODE	CM <	VALUE	UNITS		
ACENAPHTHYLENE	34203	U <	400.000	UG/KG	8270	
ACENAPHTHENE	34208	U <	400.000	UG/KG	8270	
ANTHRACENE	34223	U <	400.000	UG/KG	8270	
BENZO (B) FLUORANTHENE	34233	U <	400.000	UG/KG	8270	
BENZO (K) FLUORANTHENE	34245	U <	400.000	UG/KG	8270	
BENZO (A) PYRENE	34250	U <	400.000	UG/KG	8270	
BIS(2-CHLOROETHYL) ETHER	34271	U <	400.000	UG/KG	8270	
BIS(2-CHLOROETHOXY) METHANE	34281	U <	400.000	UG/KG	8270	
BIS(2-CHLOROISOPROPYL) ETHER	34286	U <	400.000	UG/KG	8270	
BUTYLBENZYLPHthalate	34295	U <	400.000	UG/KG	8270	
CHRYSENE	34323	U <	400.000	UG/KG	8270	
DIETHYLPHthalate	34339	U <	400.000	UG/KG	8270	
DIMETHYLPHthalate	34344	U <	400.000	UG/KG	8270	
FLUORANTHENE	34379	U <	400.000	UG/KG	8270	
FLUORENE	34384	U <	400.000	UG/KG	8270	
HEXACHLOROCYCLOPENTADIENE	34389	U <	400.000	UG/KG	8270	
HEXACHLOROETHANE	34399	U <	400.000	UG/KG	8270	
INDENO (123-CD) PYRENE	34406	U <	400.000	UG/KG	8270	
ISOPHORONE	34411	U <	400.000	UG/KG	8270	
NITROSODIPROPYLAMINE	34431	U <	400.000	UG/KG	8270	
NITROSODIPHENYLAMINE	34436	U <	400.000	UG/KG	8270	
NAPHTHALENE	34445	U <	400.000	UG/KG	8270	
NITROBENZENE	34450	U <	400.000	UG/KG	8270	
P-CHLORO-M-CRESOL	34455	U <	400.000	UG/KG	8270	
PHENANTHRENE	34464	U <	400.000	UG/KG	8270	
PYRENE	34472	U <	400.000	UG/KG	8270	
BENZO (GHI) PERYLENE	34524	U <	400.000	UG/KG	8270	
BENZO (A) ANTHRACENE	34529	U <	400.000	UG/KG	8270	
1, 2-DICHLOROBENZENE	34539	U <	400.000	UG/KG	8270	
1, 2, 4-TRICHLOROBENZENE	34554	U <	400.000	UG/KG	8270	
DIBENZO (AH) ANTHRACENE	34559	U <	400.000	UG/KG	8270	

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CONCENTRATION IN SAMPLE * EXTRACTABLES *

PAGE 2

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
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1, 4-DICHLOROBENZENE	34574	U <	400.000	UG/KG	8270
2-CHLORONAPHTHALENE	34584	U <	400.000	UG/KG	8270
2-CHLOROPHENOL	34589	U <	400.000	UG/KG	8270
2-NITROPHENOL	34594	U <	400.000	UG/KG	8270
DI-N-OCTYLPHthalate	34599	U <	400.000	UG/KG	8270
2, 4-DICHLOROPHENOL	34604	U <	400.000	UG/KG	8270
2, 4-DIMETHLYPHENOL	34609	U <	400.000	UG/KG	8270
2, 4-DINITROTOLUENE S	34614	U <	400.000	UG/KG	8270
2, 4-DINITROPHENOL	34619	U <	2000.000	UG/KG	8270
2, 4, 6-TRICHLOROPHENOL	34624	U <	400.000	UG/KG	8270
2, 6-DINITROTOLUENE	34629	U <	400.000	UG/KG	8270
3, 3'-DICHLOROBENIZDINE	34634	U <	800.000	UG/KG	8270
4-BROMOPHENYLPHENYL ETHER	34639	U <	400.000	UG/KG	8270
4-CHLOROPHENYLPHENYL ETHER	34644	U <	400.000	UG/KG	8270
4-NITROPHENOL	34649	U <	2000.000	UG/KG	8270
4, 6-DINITRO-O-CRESOL	34660	U <	2000.000	UG/KG	8270
PHENOL	34695	U <	400.000	UG/KG	8270
PENTACHLOROPHENOL	39061	U <	2000.000	UG/KG	8270
BIS(2-ETHYLHEXYL) PHTHALATE	39102	U <	400.000	UG/KG	8270
DI-N-BUTYLPHthalate	39112	U <	400.000	UG/KG	8270
HEXACHLOROBENZENE S	39701	U <	400.000	UG/KG	8270
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BENZOIC ACID	75315	U <	2000.000	UG/KG	8270
DIBENZOFURAN	76619	U <	400.000	UG/KG	8270
2-METHYLPHENOL	77924	U <	400.000	UG/KG	8270
4-METHYLPHENOL	77926	U <	400.000	UG/KG	8270
2, 4, 5-TRICHLOROPHENOL	77928	U <	2000.000	UG/KG	8270
4-CHLOROANALINE	77930	U <	400.000	UG/KG	8270
2-NITROANALINE	77932	U <	2000.000	UG/KG	8270
3-NITROANALINE	77934	U <	2000.000	UG/KG	8270
4-NITROANALINE	77936	U <	2000.000	UG/KG	8270
2-METHYLNAPHTHALENE	78305	U <	400.000	UG/KG	8270

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 3

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
BENZENE	34237	U <	5.000	UG/KG	8240
BROMOFORM	34290	U <	5.000	UG/KG	8240
CARBON TETRACHLORIDE	34299	U <	5.000	UG/KG	8240
CHLOROBENZENE	34304	U <	5.000	UG/KG	8240
DIBROMOCHLOROMETHANE	34309	U <	5.000	UG/KG	8240
CHLOROETHANE	34314	U <	10.000	UG/KG	8240
CHLOROFORM	34318	U <	5.000	UG/KG	8240
DICHLOROBROMOMETHANE	34330	U <	5.000	UG/KG	8240
ETHYLBENZENE	34374	U <	5.000	UG/KG	8240
METHYL BROMIDE	34416	U <	10.000	UG/KG	8240
METHYL CHLORIDE	34421	U <	10.000	UG/KG	8240
METHYLENE CHLORIDE	34426	U <	5.000	UG/KG	8240
TETRACHLOROETHENE	34478	U <	5.000	UG/KG	8240
TOLUENE	34483	U <	5.000	UG/KG	8240
TRICHLOROETHENE	34487	U <	5.000	UG/KG	8240
VINYL CHLORIDE	34495	U <	10.000	UG/KG	8240
1,1-DICHLOROETHANE	34499	U <	5.000	UG/KG	8240
1,1-DICHLOROETHENE	34504	U <	5.000	UG/KG	8240
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1,1,2-TRICHLOROETHANE	34514	U <	5.000	UG/KG	8240
1,1,2,2-TETRACHLOROETHANE	34519	U <	5.000	UG/KG	8240
1,2-DICHLOROETHANE	34534	U <	5.000	UG/KG	8240
1,2-DICHLOROPROPANE	34544	U <	5.000	UG/KG	8240
TRANS-1,2-DICHLOROETHENE	34549	U <	5.000	UG/KG	8240
2-CHLOROETHYLVINYL ETHER	34579	U <	10.000	UG/KG	8240
TRANS-1,3-DICHLOROPROPENE	34697	U <	5.000	UG/KG	8240
CIS-1,3-DICHLOROPROPENE	34702	U <	5.000	UG/KG	8240
XYLEMES	45510	U <	5.000	UG/KG	8240
ACETONE	75059	U <	10.000	UG/KG	8240
METHYLETHYL KETONE	75078	U <	10.000	UG/KG	8240
2-HEXANONE	75166	U <	10.000	UG/KG	8240
METHYLISOBUTYL KETONE	75169	U <	10.000	UG/KG	8240
STRYENE	75192	U <	5.000	UG/KG	8240
VINYL ACETATE	75193	U <	10.000	UG/KG	8240
CARBON DISULFIDE	77938	U <	5.000	UG/KG	8240

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CONCENTRATION IN SAMPLE * PURGEABLES *

PAGE 4

PARAMETER NAME	CODE	CM <	VALUE	UNITS	METHOD
----------------	------	------	-------	-------	--------

SOURCE: OHIO OIL COMPANY
PROGRAM: Waste Management Division
COUNTY: CREEK CITY: BRISTOW

LEGAL DESCRIPTION

/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: LAB BLANK#3

ANALYST'S COMMENTS:

ANALYST

